

Figure A shows the element that helps the other element

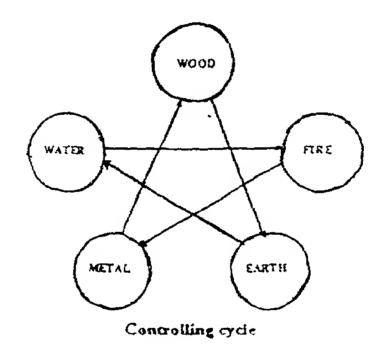


Figure B shows the element that controls the other element

Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine.

Most of the world traditional philosophies follow the same concept.

Relation of colors with humors

Figure 2

VATA	КАРНА	PITTA

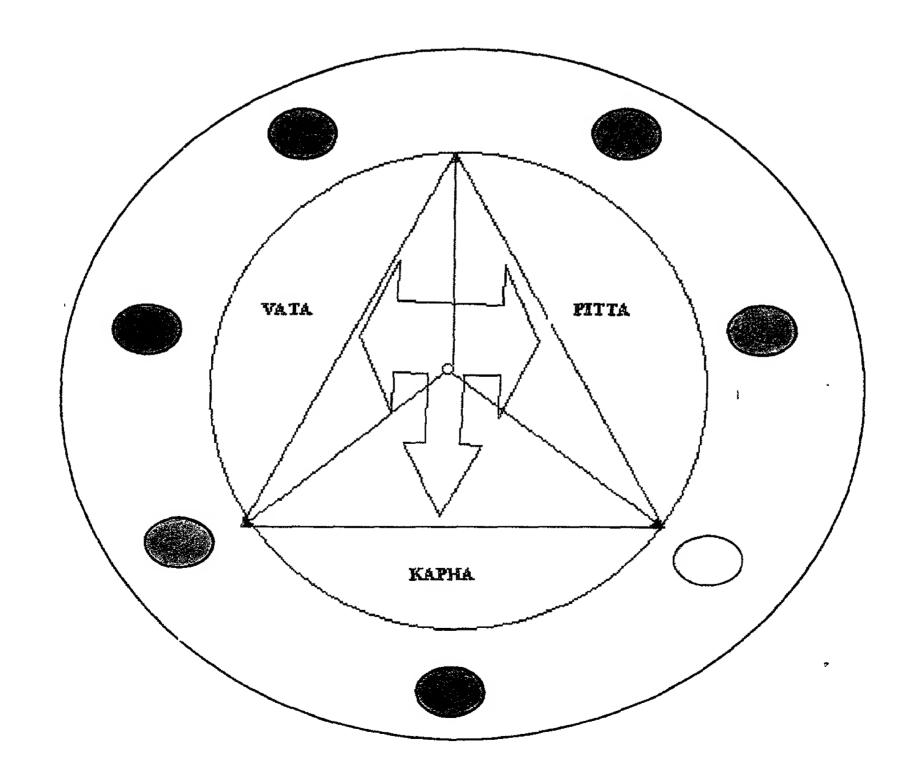
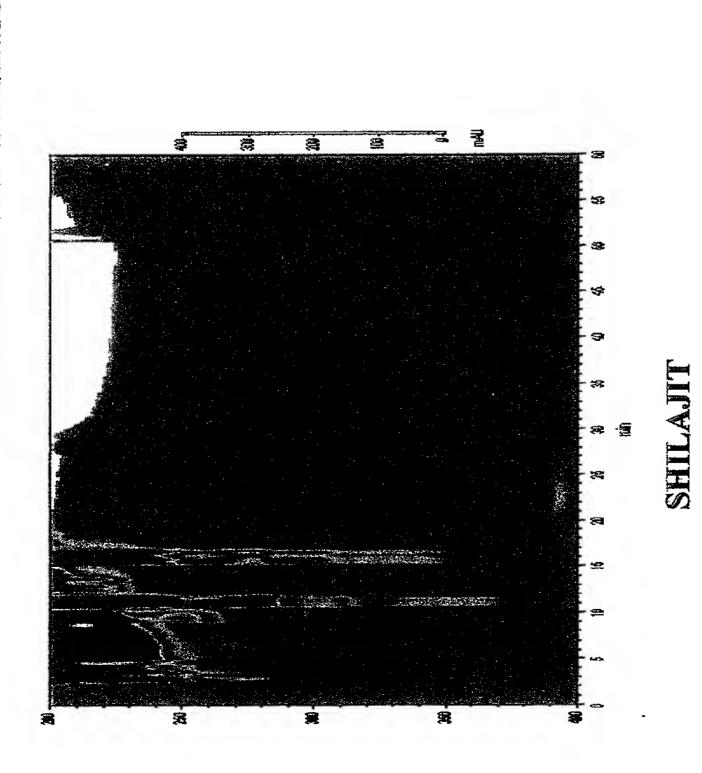


Figure 3

THE SHILAJIT EXAMPLE



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POOR BY EFFICACY SHILAJIT

GOOD BY EFFICACY

3

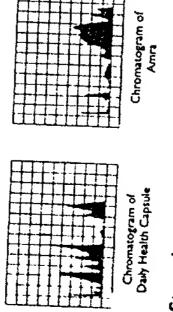
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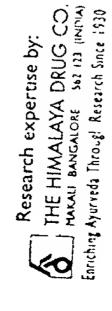
H find ... with the series of

herbs. Careful selection of herbs, stringent quality Herbal formulations with the same ingredients depending on the quality and processing of the control ar.d Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies. may differ substantially in safety and efficacy

are manufactured according to the rigid standards research and scientific analysis. These products represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern Each Ayurvedic CONCEPTS formula of modern pharmaceutical technology.



Keep out of the reach of children. Store in a cool, dry place.



sipaannhy 10-20C-DH 11-X0Y-01

CONCEPTS

Daily Health Capsules

Antistressor * Rejuvenator Amla · Licorice · Natural Zinc

60 CAPSULES

	Each capsule contains:	ë		-	'n
•	Pdrs.		A CONTRACTOR OF THE PROPERTY O	Thomas .	
	Amolaki		, 8		
	Ganj a ra	•	Set ox		Z
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	Draksha		25 mg	o <u>.</u> o t	fun
			2000	ו	
	Godhuma		17.57		Ö
			gm oc./I	.	rich

2 capsules twice a day. Dosage:

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Mg.Lic. Na.:AUS-83 (Incl. of all taxes) M.R.P.: Rs.60.00

Exp.: 3 yrs. from date of Mfg 90702 B.No.:

July 99 Mfd.:

THE HIMALAYA DRUG CO Made in India by:

elleves stress, mental fatigue. Res healthy equilibrium,

mage to the body by the release of As dicals, thereby disturbing normal book antinued stress disrupts the immuness iding to chronic fatigue, hypertensia flution and chemicals cause oxidation ress has become part of life today. ctions.

(Wheatgerm) oil (vit.E). Yashti-madka ily Health capsules are non-sedating rich in anti-oxidant vitamins in the 🏗 (Licorice) and Yashad bhasma (Nator that bolster the body's defence mechans Zinc) are excellent immune-stimula of Amra and Garijara (vit.A), Amalaki (Amla) (vit.C), and Lavango (Clove), Draksha (Grapes) and Godhuma keeping you fit and healthy.

treatment of stress of various origi Clinical trials on the product have proved it to be beneficial in the

Ayurvedic Proprietary Medicine. Completely safe. Non-toxic.

NON-SEDATING

does not give any clear information about the polarity and conjugative properties of the constituents. The chromatographic fingerprint

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OF A COMMERCIAL TURIMERIC POWDER AT CHROMATOGRAMS

AT DIFFERENT WAVELENGTHS

(The existing method)

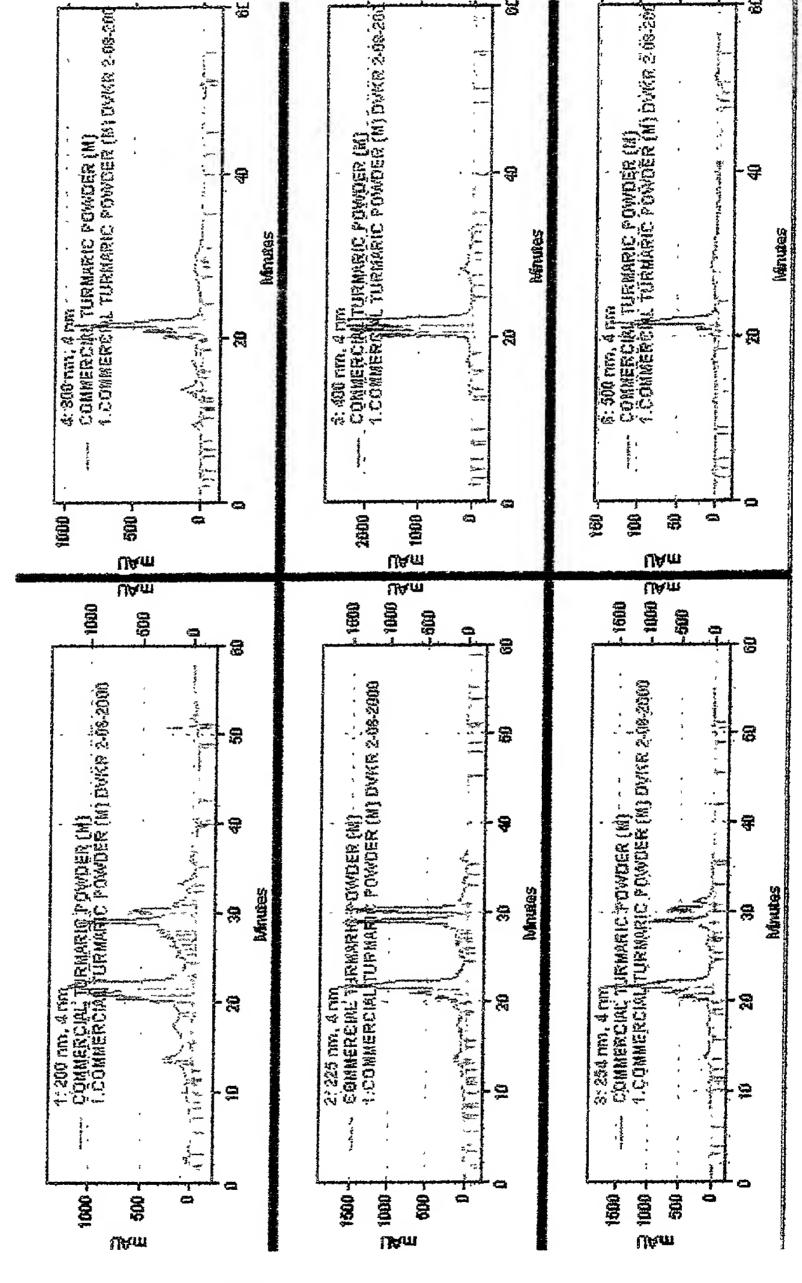


Figure 5

CHROMA TOGRAMS OF A FURAZOLIDINE MEDICINE AT DIFFERENT WAVELENGTHS

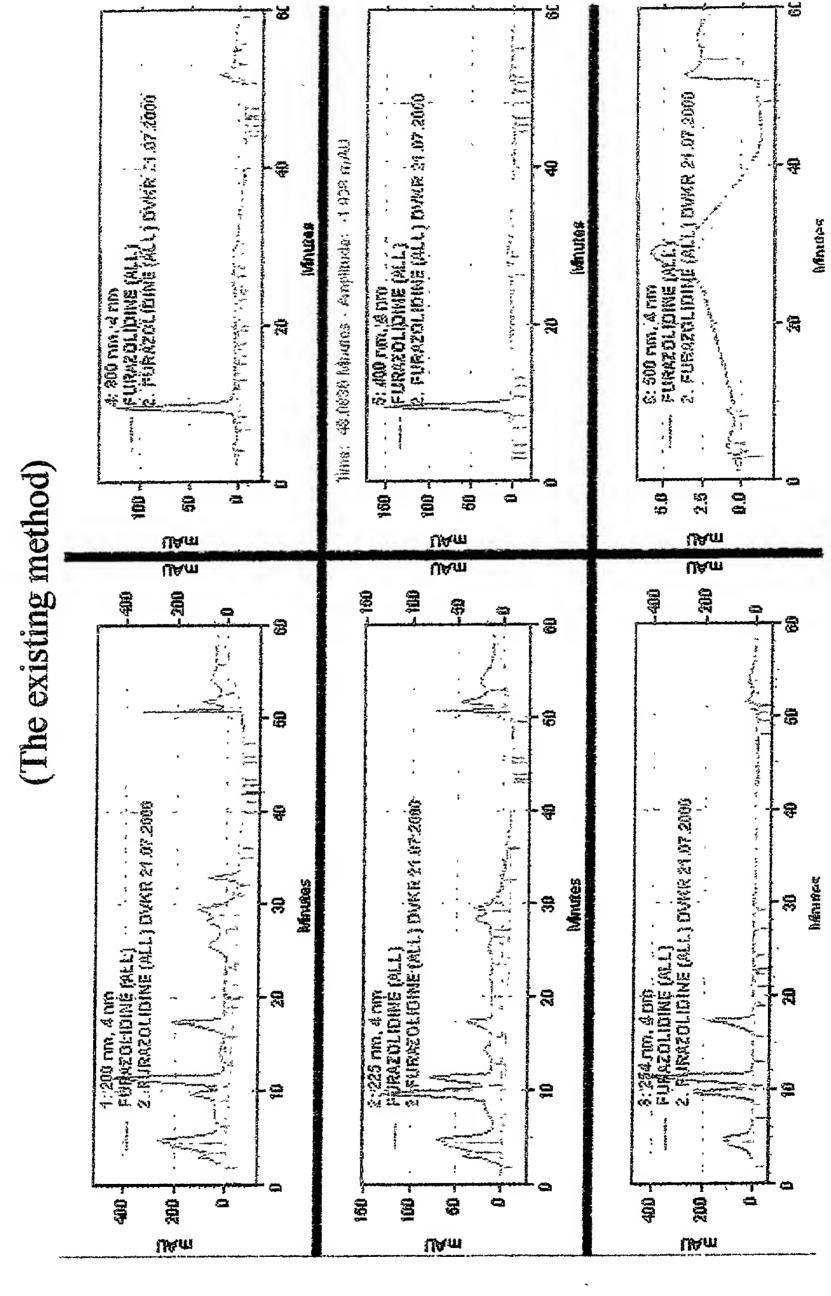


Figure 6

CHROMA TOGRAMS OF A HERBAL FORMULATION

KRIMIKUTARA RAS

AT DIFFERENT WAVELENGTHS

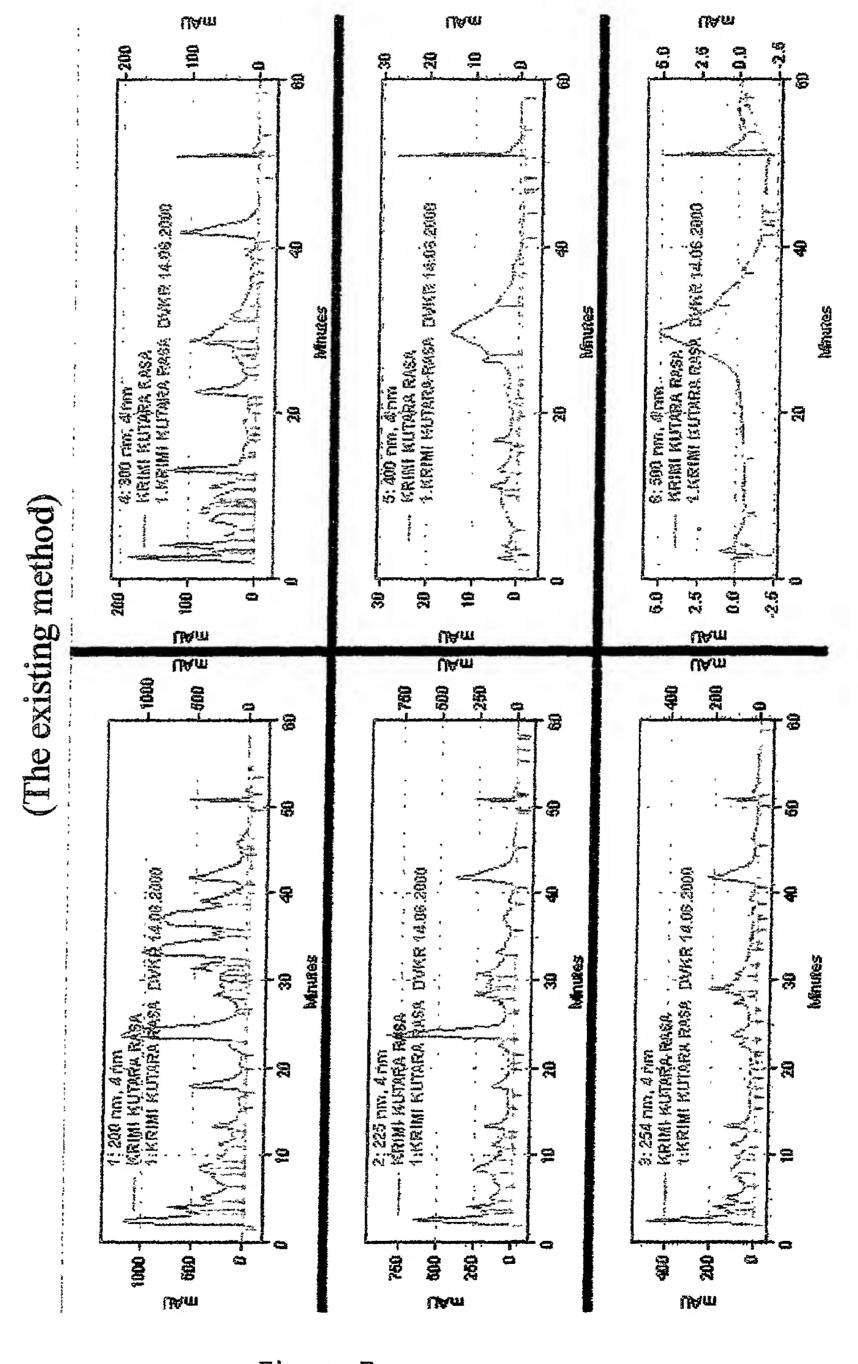


Figure 7

CHROMATOGRAMS OF A HERBOMINERAL MEDICINE SHILAJIT (GOOD BY EFFICACY)

(The existing method)

DIFFERENT WAVELENGTHS

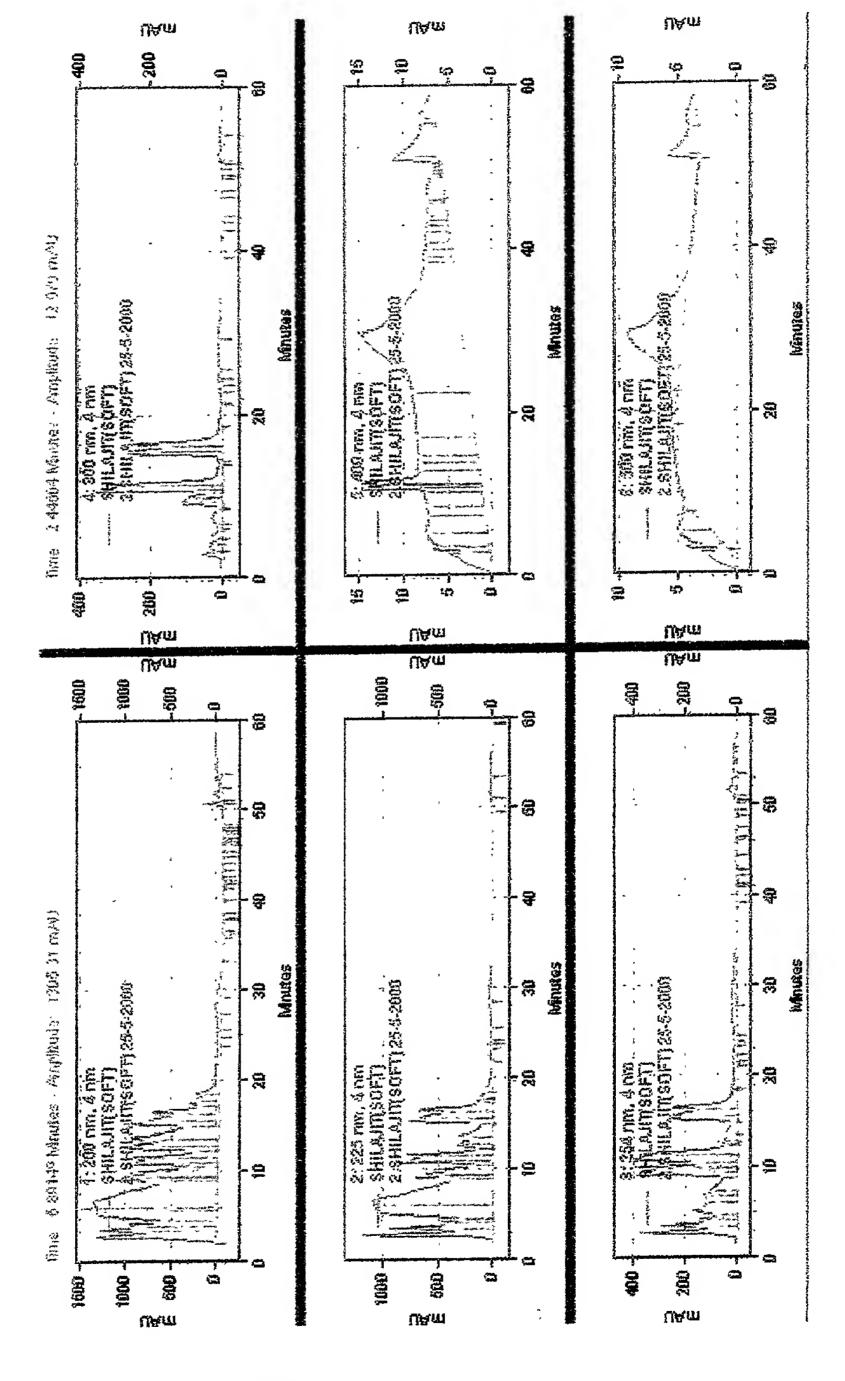


Figure 8

CHROMA TOGRAMS OF A HERBOMINERAL MEDICINE SHILAJIT (POOR BY EFFICACY) AT DIFFERENT WAVELENGTHS

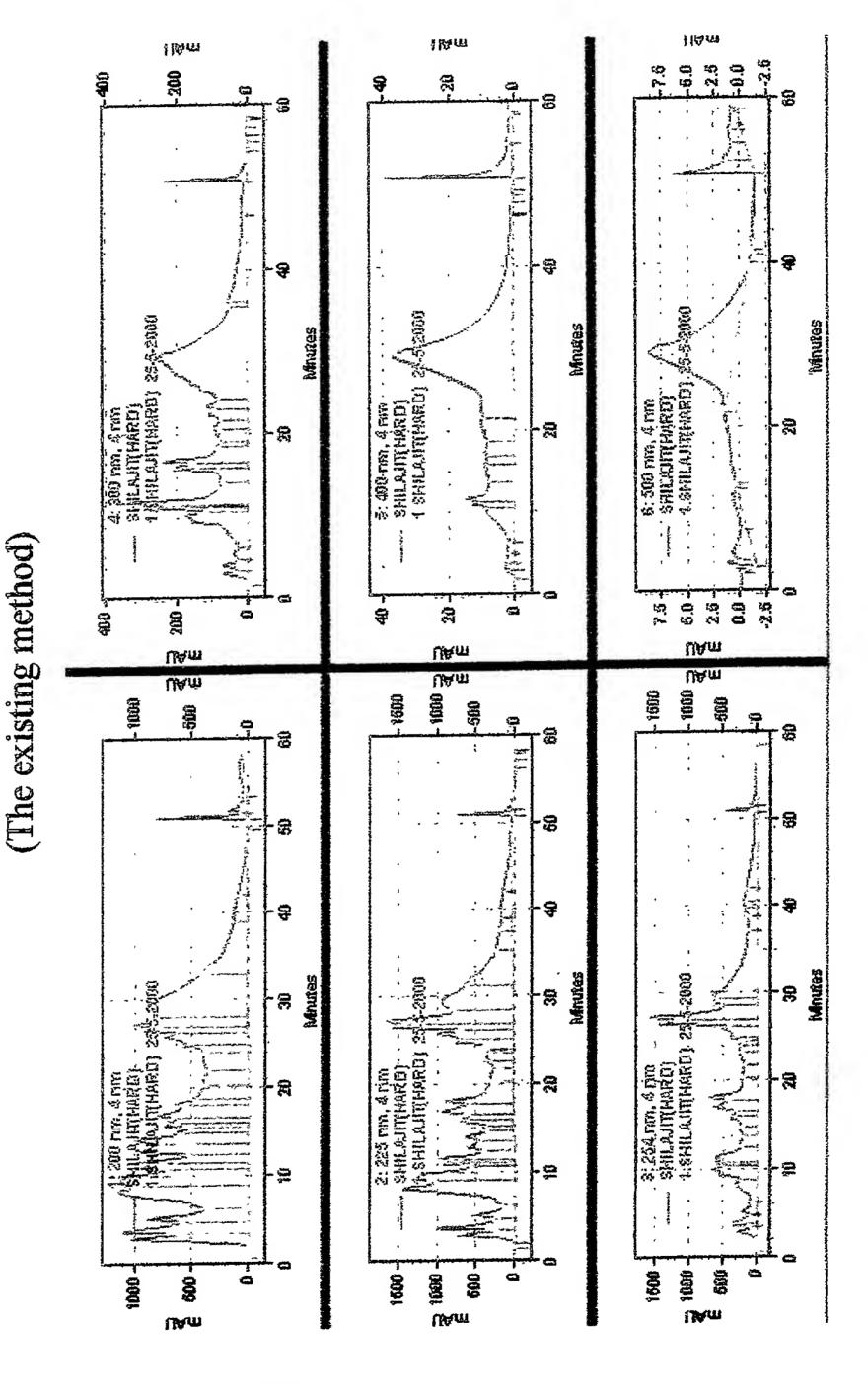
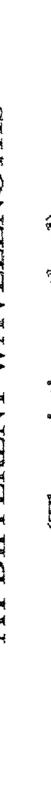


Figure 9

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CHROMATOGRAMS OF A HERBAL FORMULATION

AT DIFFERENT WAVELENGTHS



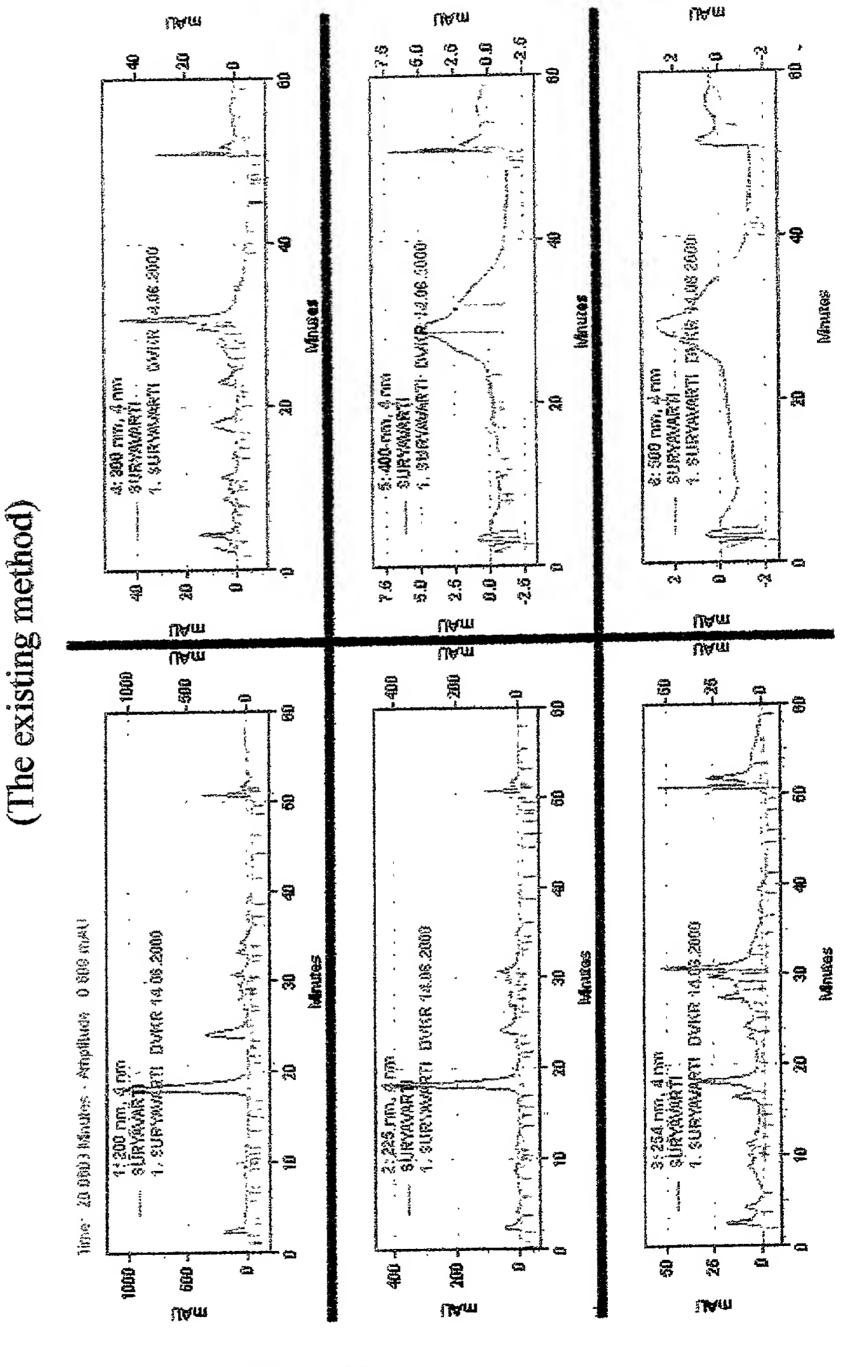
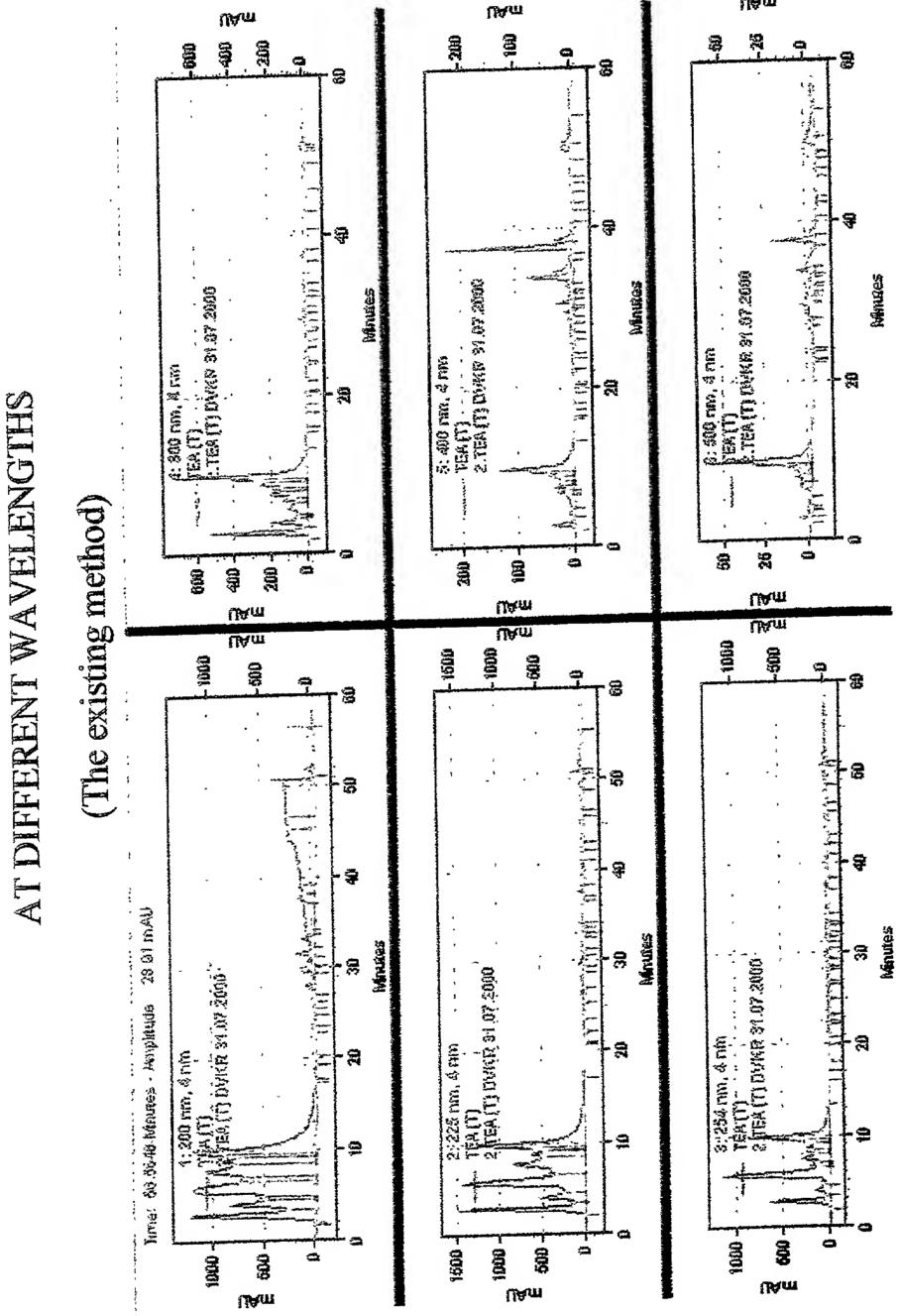


Figure 10

CHROMATOGRAMS OF A HERBAL FOOD PRODUCT

TEA



UAm

Figure 11

TRIKTU (A FORMULATION OF PIPPALI, MARICHA AND SHUNTI) OGRAMS OF A HERBAL FORMULATION CHROMAT

(The existing method)

AT DIFFERENT WAVELENGTHS

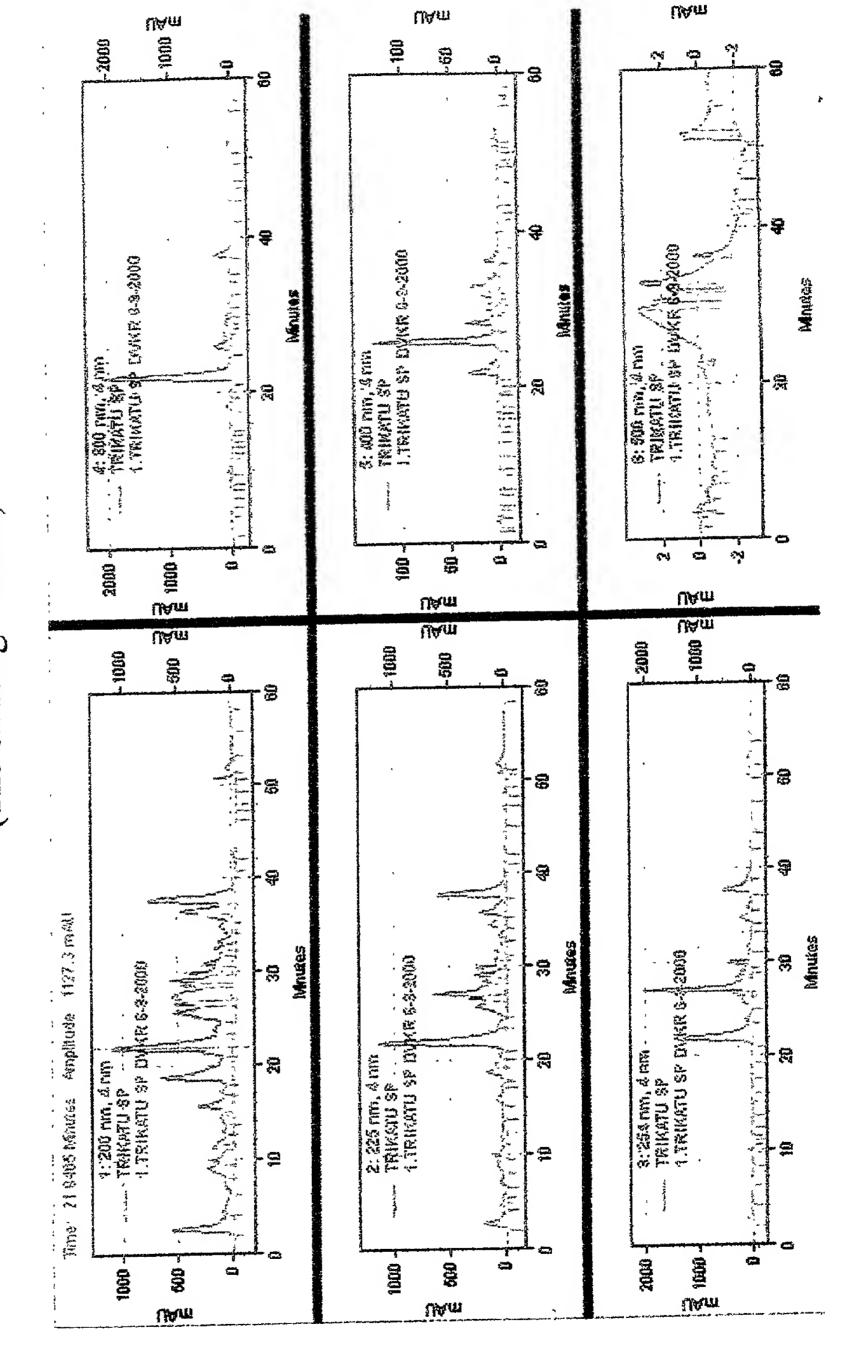
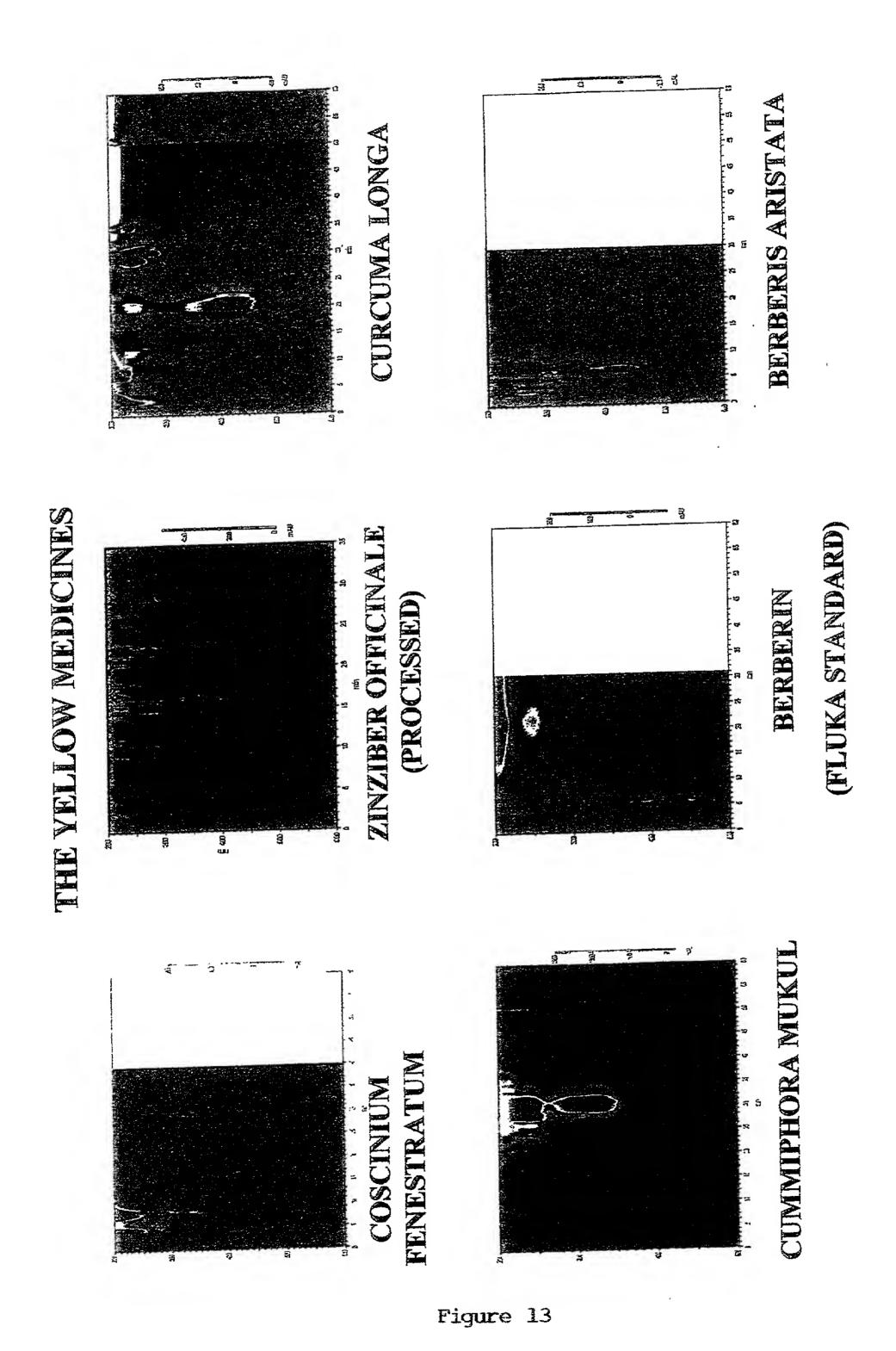
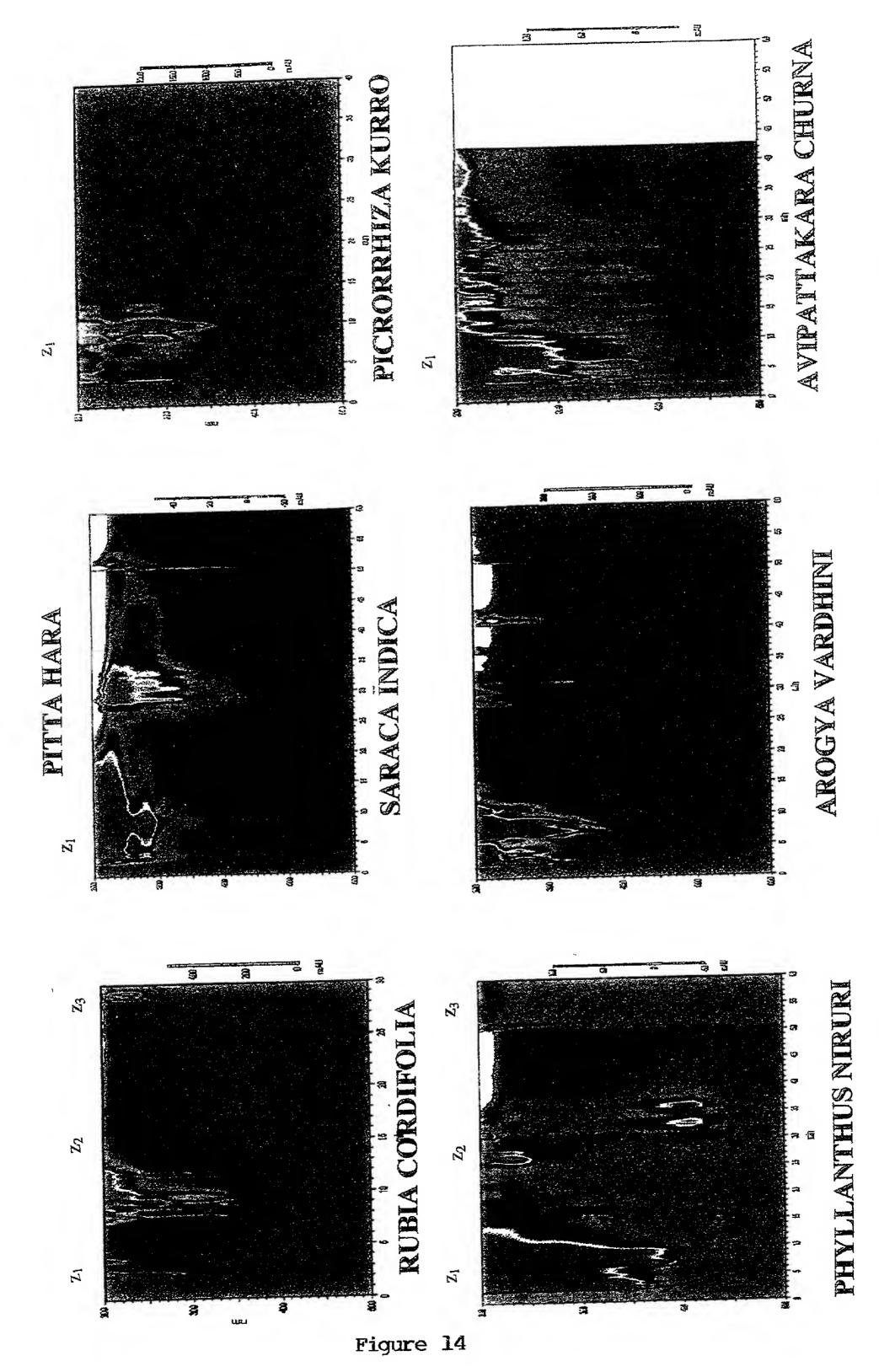


Figure 12



A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY. NTRAVERSIAL DRUGS (SANDIGDHA DRAVYAS) SHOWS FINGERPRINTS OF CO THE



MEDICINES THE OF SAID EFFICACY ZONE-I INDICATES THE CONSTITUENTS OF PRESENCE THE

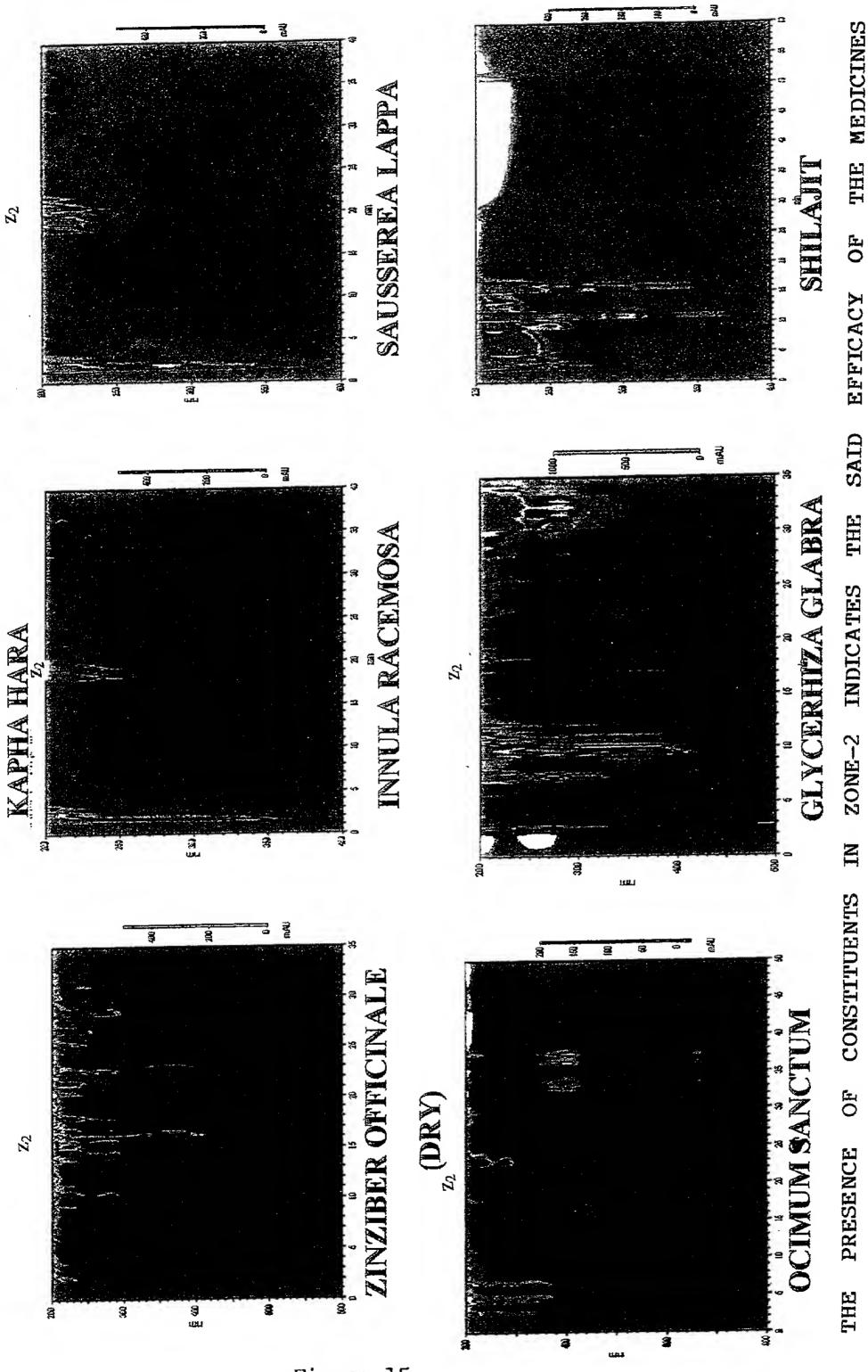
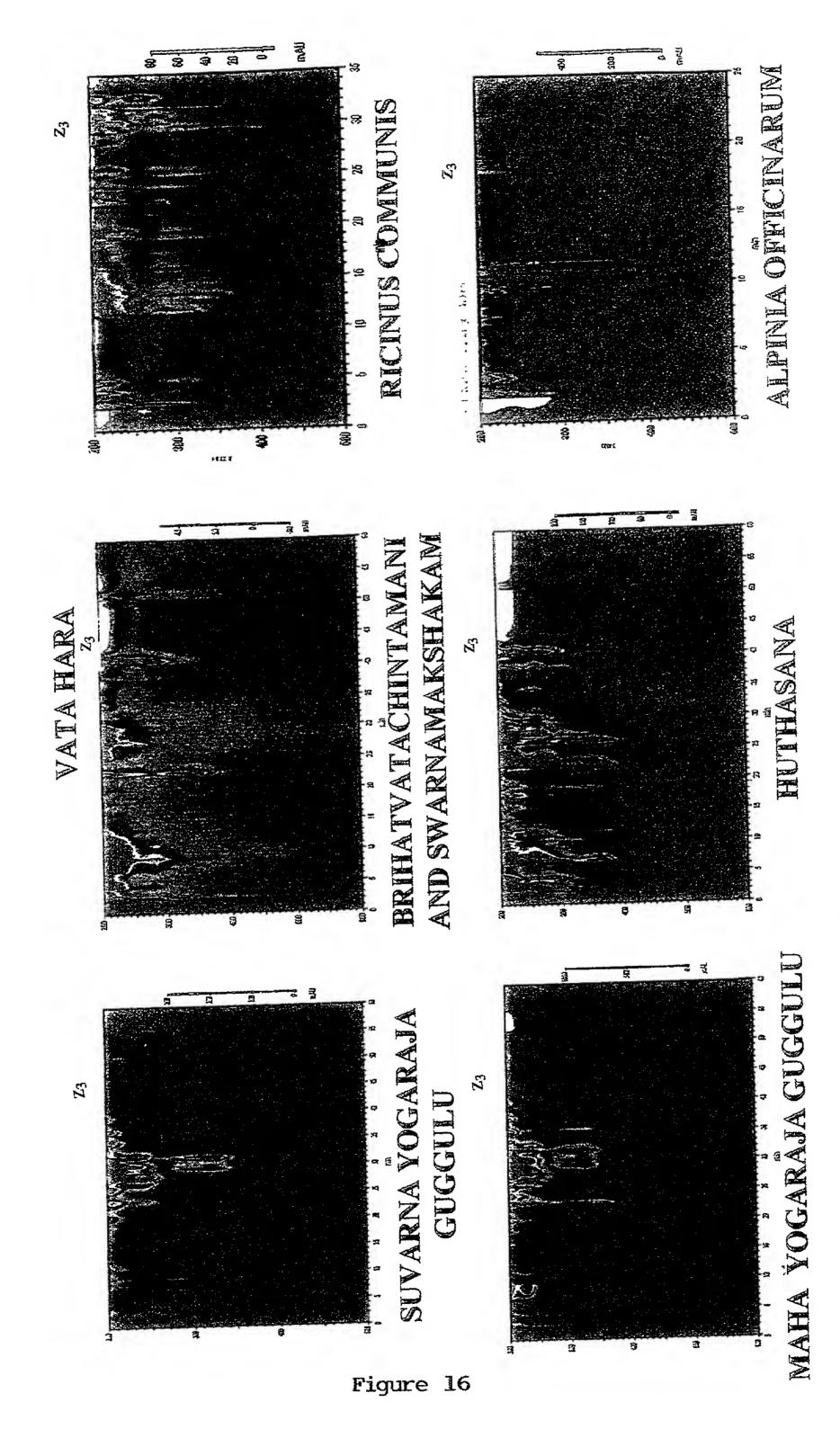
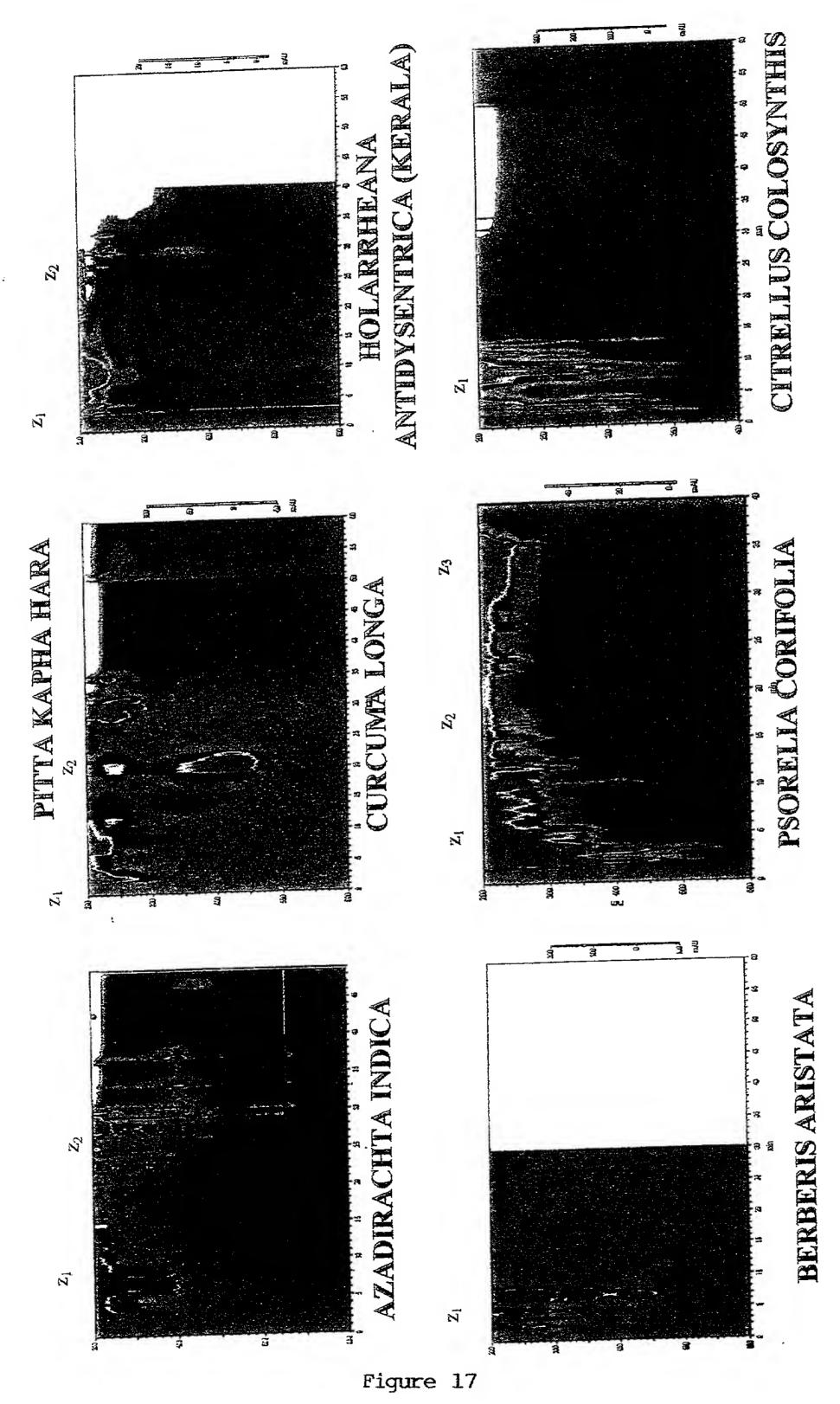


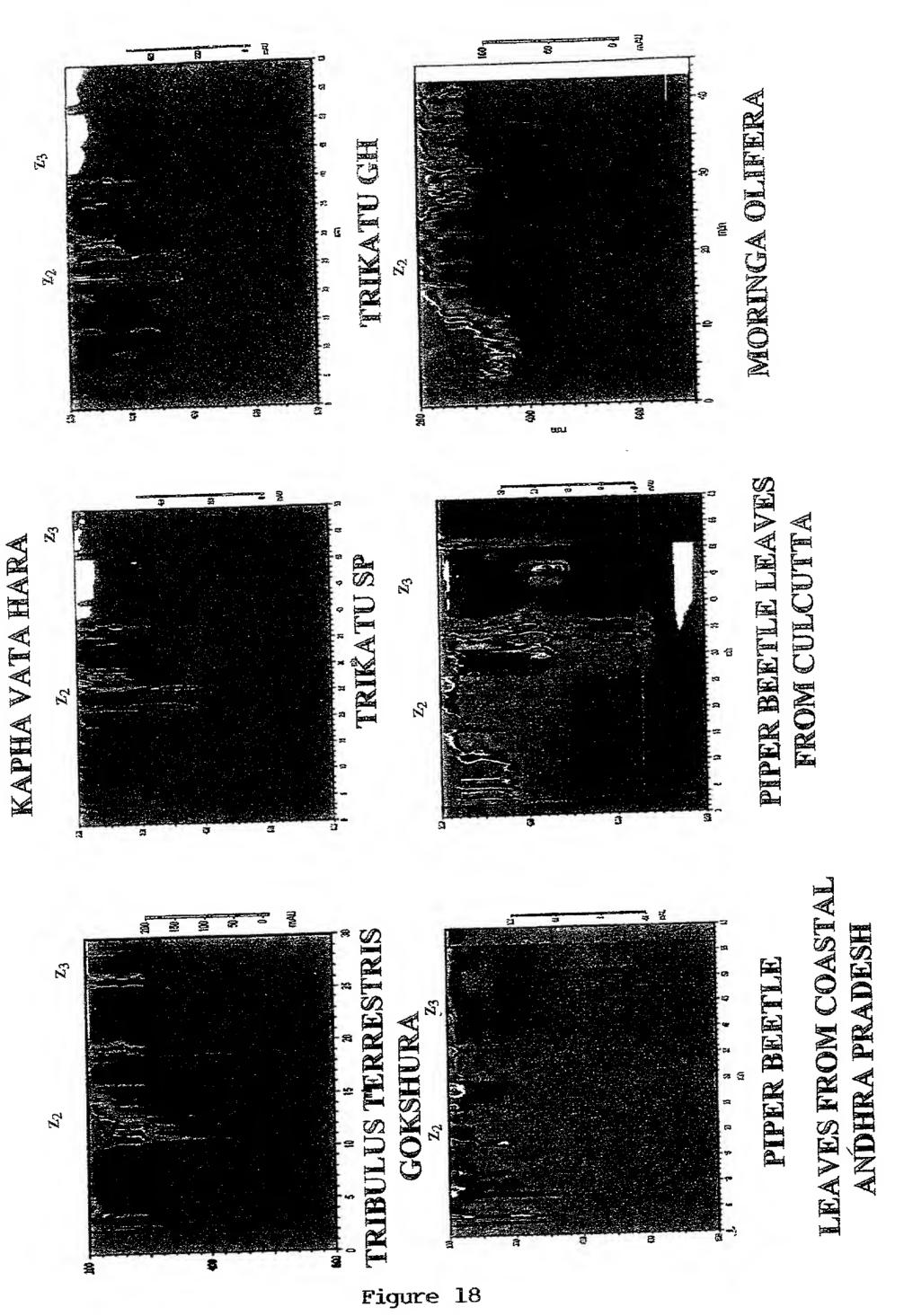
Figure 15



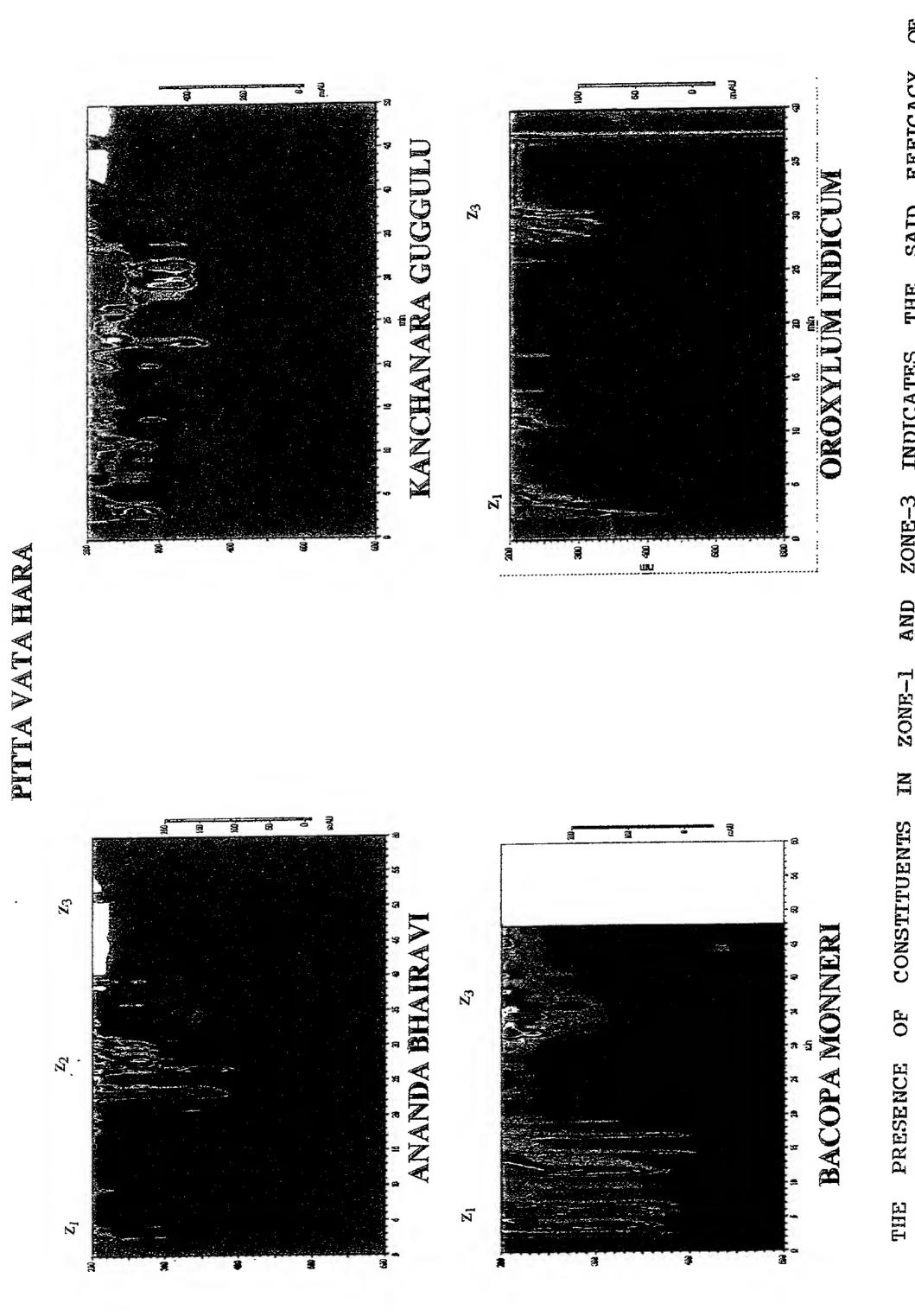
MEDICINES THE OF EFFICACY SAID INDICATES THE THE PRESENCE OF CONSTITUENTS ZONE-3



MEDICINES THE OF SAID EFFICACY THE AND ZONE-2 INDICATES IN ZONE-1 TS CONSTITUEN OF PRESENCE THE



THE MEDICINES OF SAID EFFICACY THE INDICATES IN ZONE-2 AND ZONE-3 THE PRESENCE OF CONSTITUENTS



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EFFICACY

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Figure 19

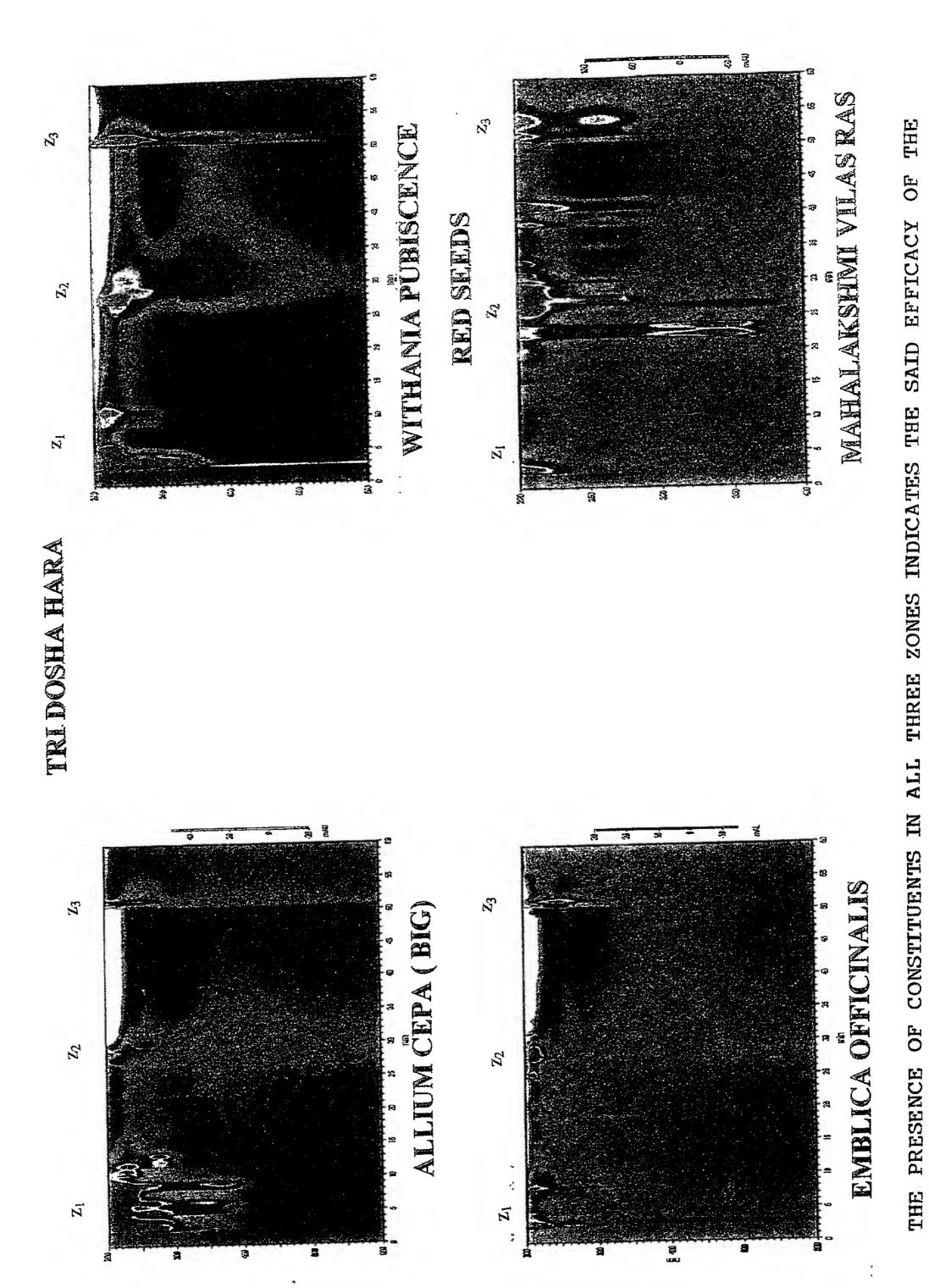
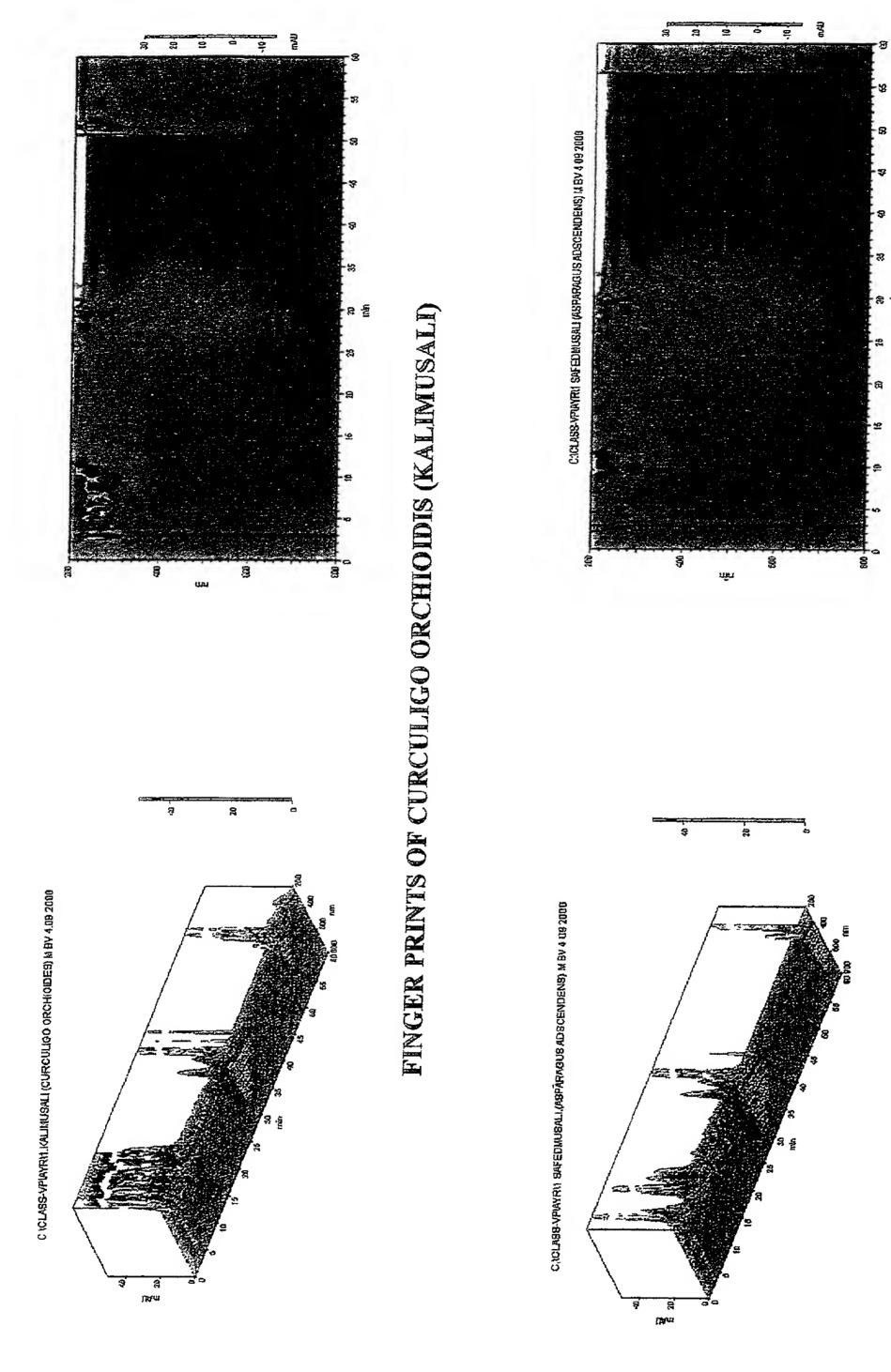


Figure 20

MEDICINES

Figure: MUSALI - A TRIDOSHA HARA MEDICINE



(SAFED MUSALI)

ADESCENDENS

ASPARAGUS

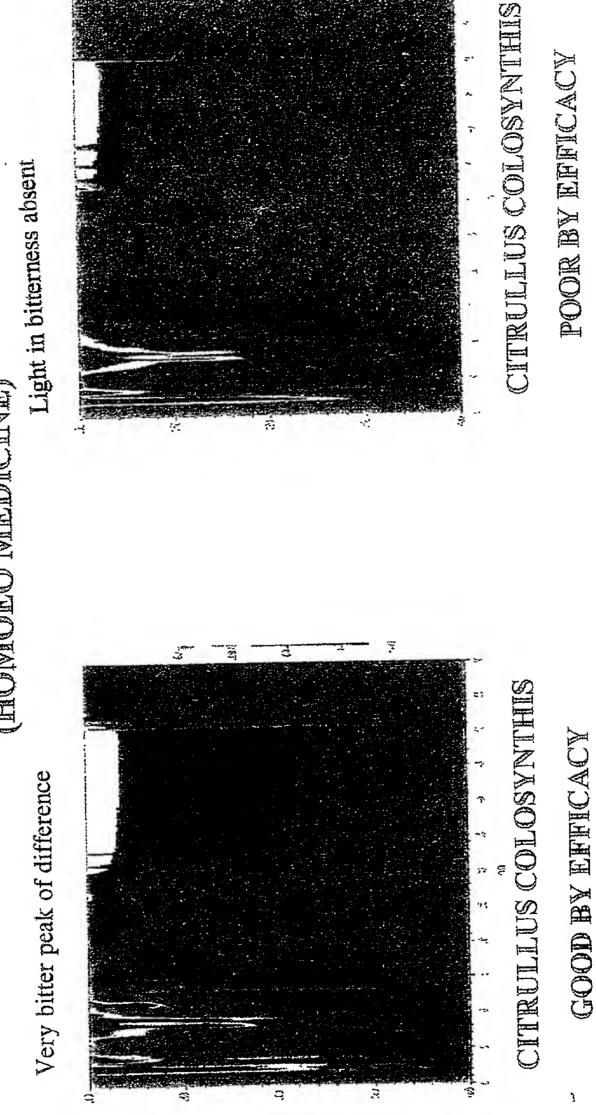
PRINT OF

FINGER

Figure 21

CITRULLUS COLOSYNTHIS





FOR

METHOD

THE LACK OF SOME CONSTITUENTS IN THE FINGER PRINT SHOWS THE USE OF THIS

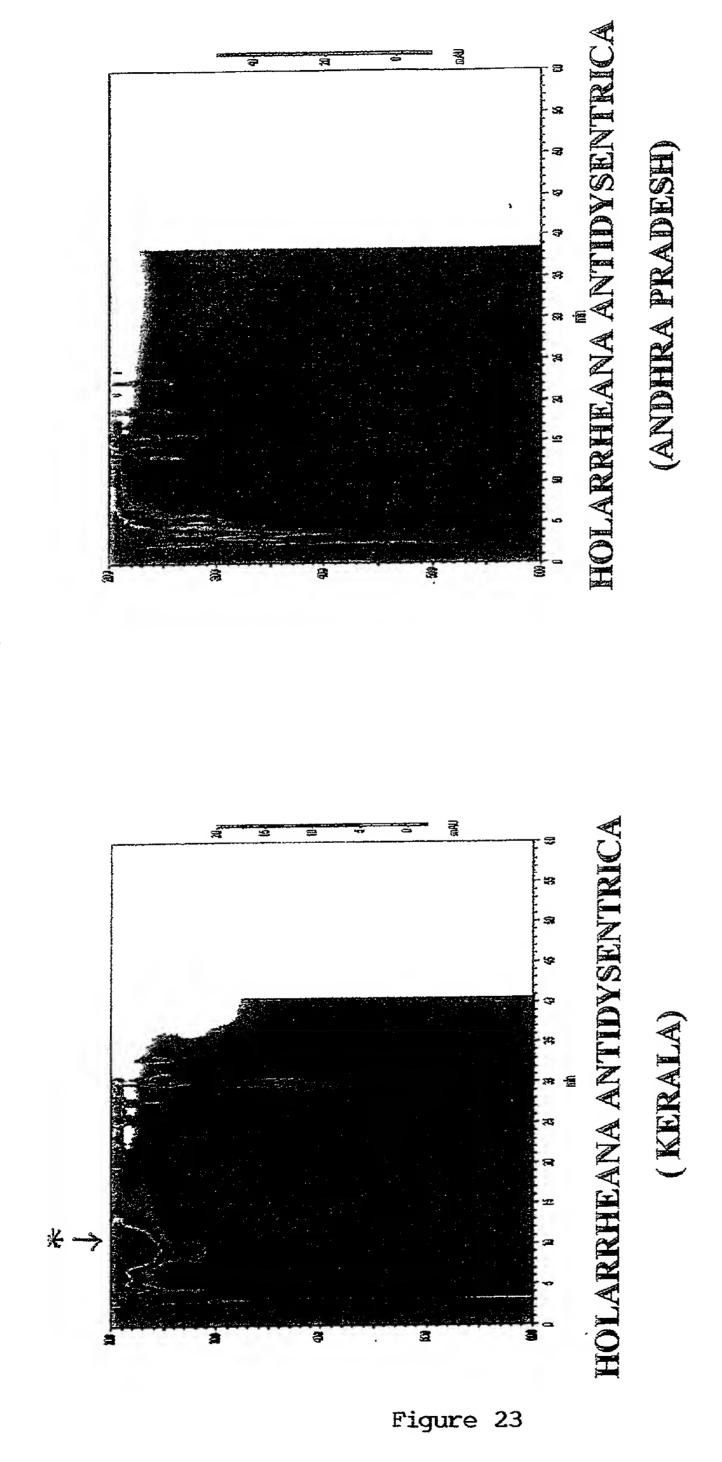
STANDARDIZATIOON OF EXTRACTION PROCESS OF HOMOEO MOTHER TINCTURES FROM

This supports the claim of

taste identification used for therapeutic standardization.

Figure 22

INFLUENCE OF ECOLOGICAL FACTORS



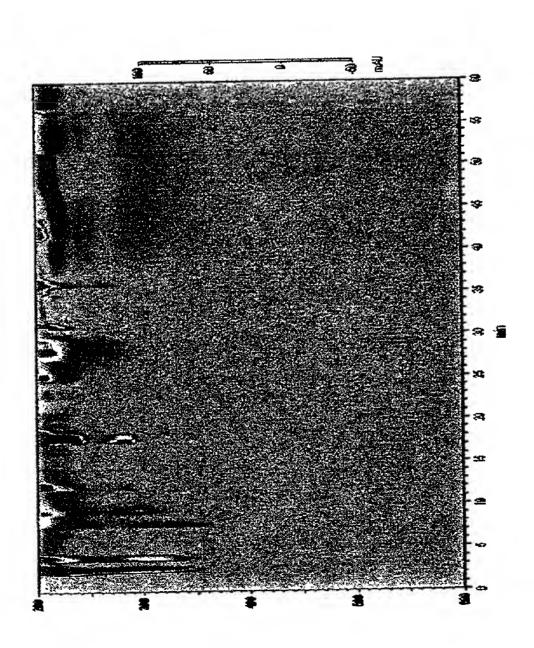
OWS THE INFLUENCE OF ECOLOGICAL FACTORS ON THE CONSTITUENTS OF THE PLANT MATERIAL OF SH CHEMICAL THE FINCER PRINTS

DIFFERENT TROPICAL ZONES OF THE COUNTRY.

in nature because the basic or alkaline amines elutes stretched or elongated. Acid compounds elute fast like a sharp peak. This constituent is basic *

Figure 24

PIPER BEETLE EXAMPLE



BEETLE LEAVES FROM COASTAL

ANDHRA PRADESH



耆

CALCUTTA

A combinatorial library of Aurones and Chareones (flavonoids) are antioxidants.

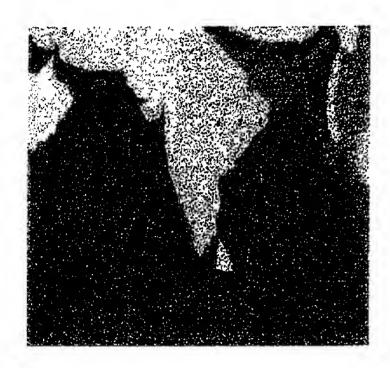
can be seen.

3

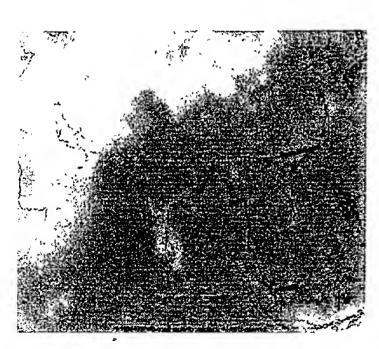
THE FLAVONOIDS PRESENT IN THE TIME RANGE OF 30 - 40 MIN SHOWS THE INFLUENCE OF GENOTYPIC, PHENOTYPIC VARIATIONS AND ECOLOGICAL FACTORS ON THE CHEMICAL OF THE PLANT MATERIAL OF DIFFERENT CONSTITUENTS

TROPICAL ZONES OF THE COUNTRY

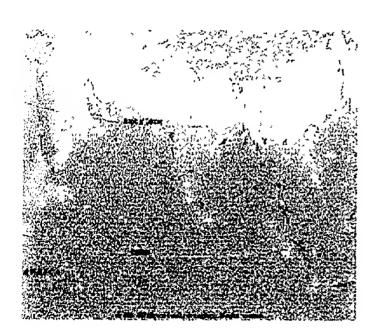
Figure 25
Figure : Indian Eco-regions



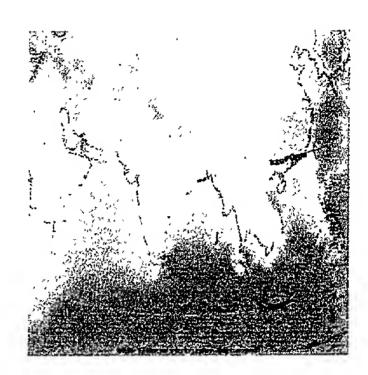
India-Eco-regions



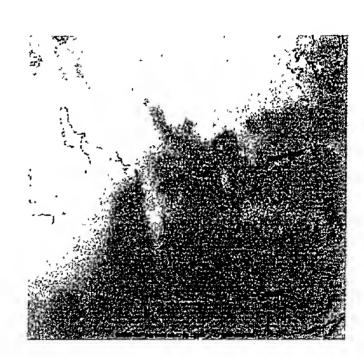
India-Precipitation-July



India-Temparature-January



India-Precipitations-January



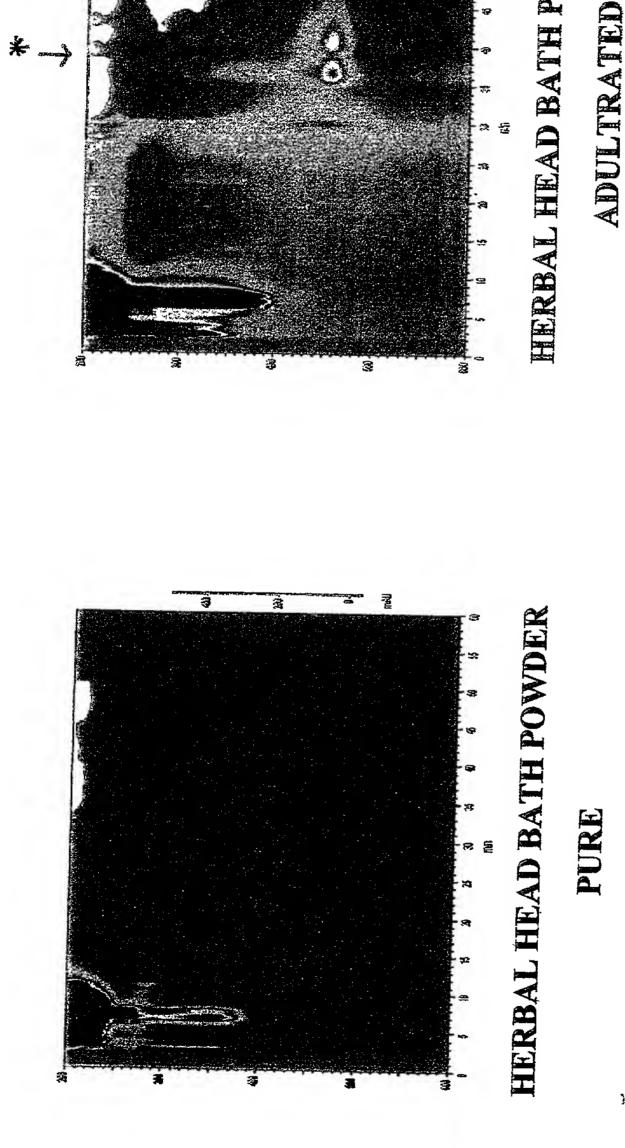
India-India precipitation -Annual

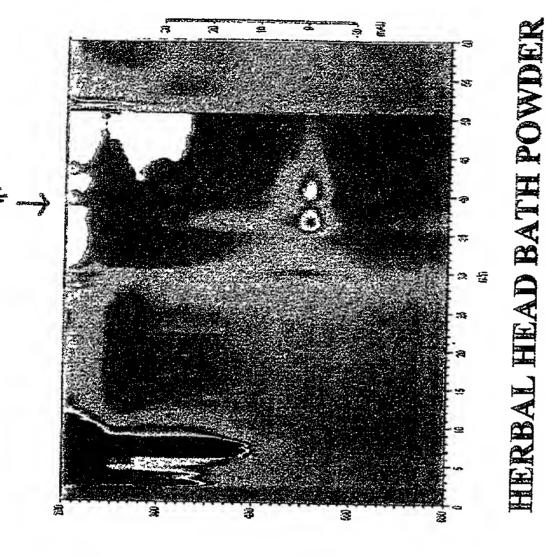


India-Climate map

Figure 26

HERBAL HEAD BATH POWDERS





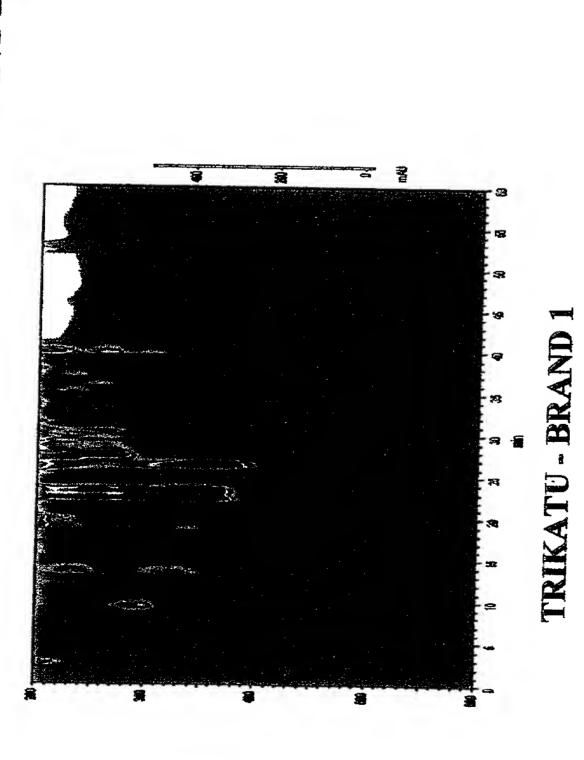
THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID ODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS HERBAL COSMETIC PRO

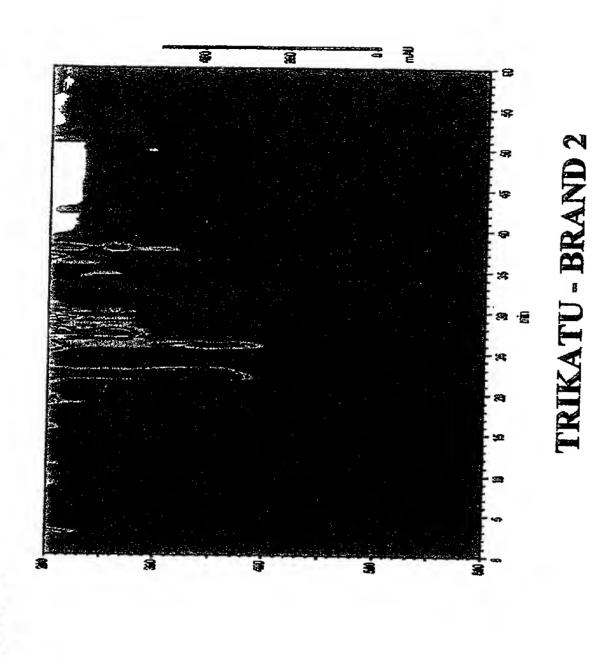
Constituents at 35-40 minutes are highly basic and soapy in nature. The pure detergent sample are eluting at the same time. **1** *

Figure 27

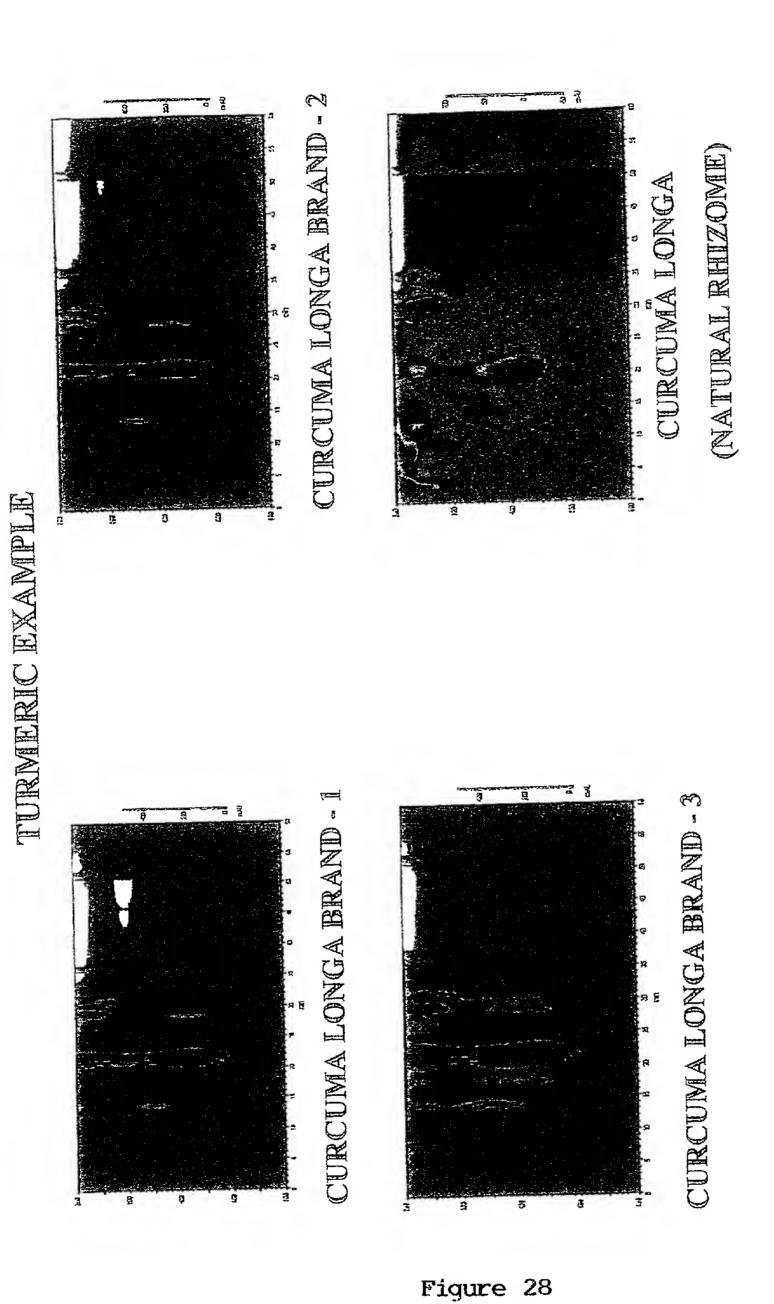
HERBAL FORMULATIONS OF

DIFFERENT BRANDS



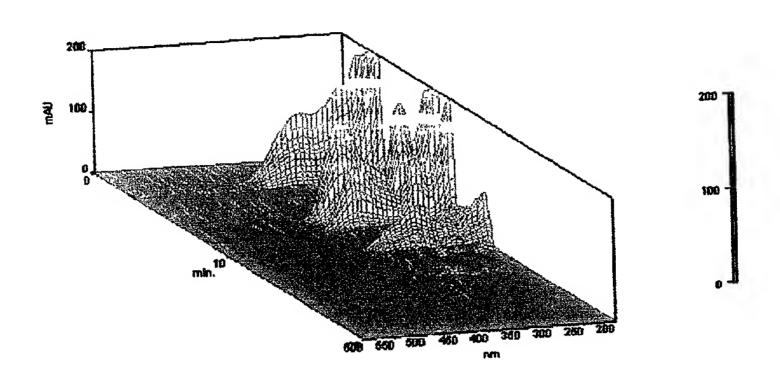


THE ABOVE EXAMPLE OF TRIKATU SHOWS DIFFERENCE IN THE ASSAY AND VARIATIONS ENTS. THE REASON MAY BE DUE TO THE VARIATIONS IN THE SINGLE MEDICINES USED TO PREPARE THE FORMULATIONS. IN THE CHEMICAL CONSTITUT



THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE VELLOW COLORED MOLECULES IN ALL. FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE FINGER PRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT

Figure 29



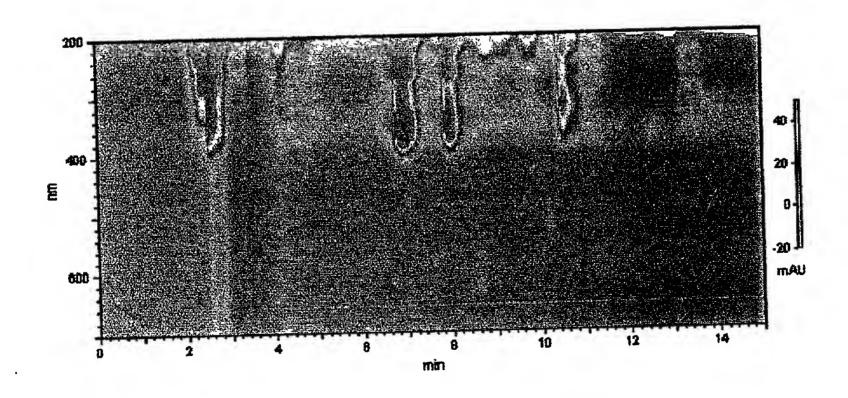
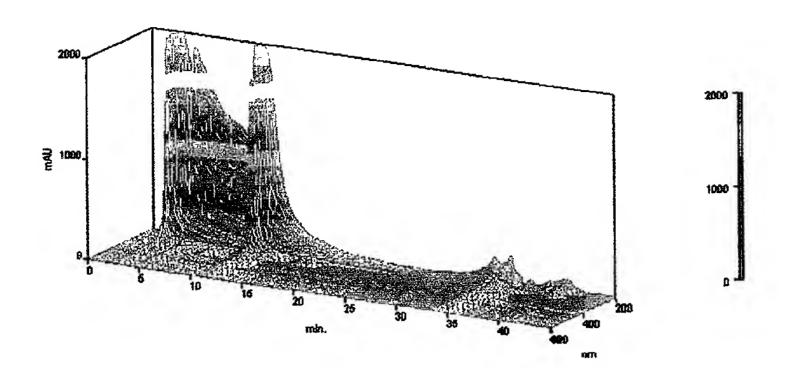


Figure 30



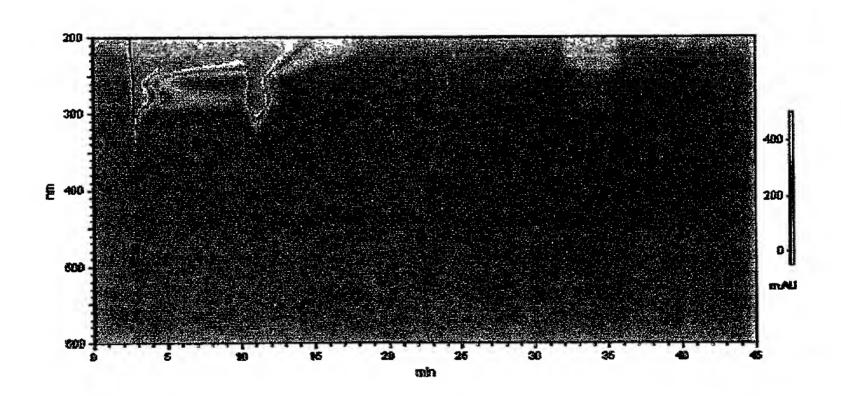
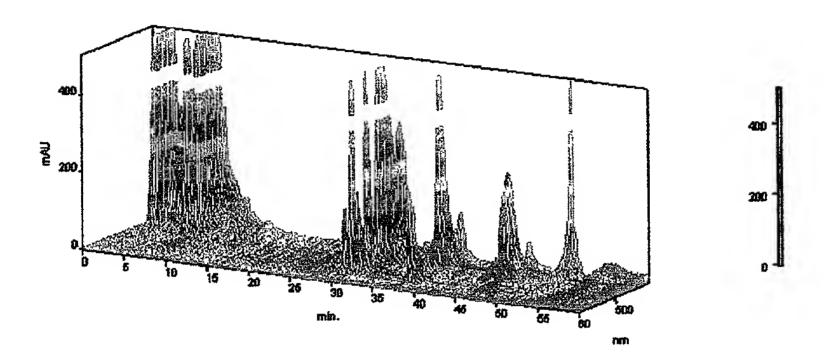


Figure 31



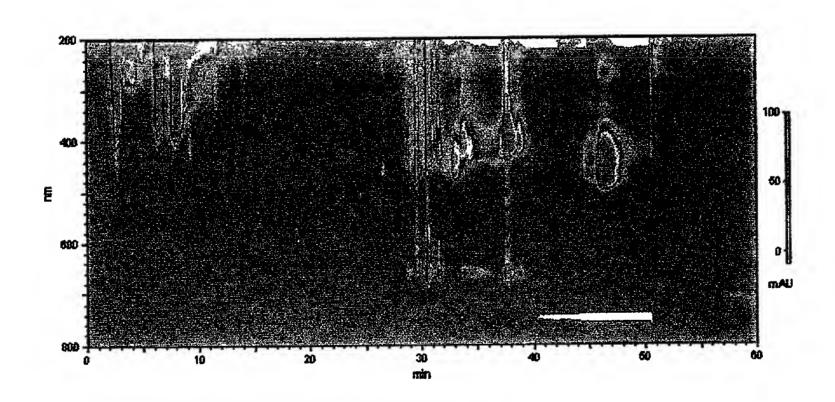
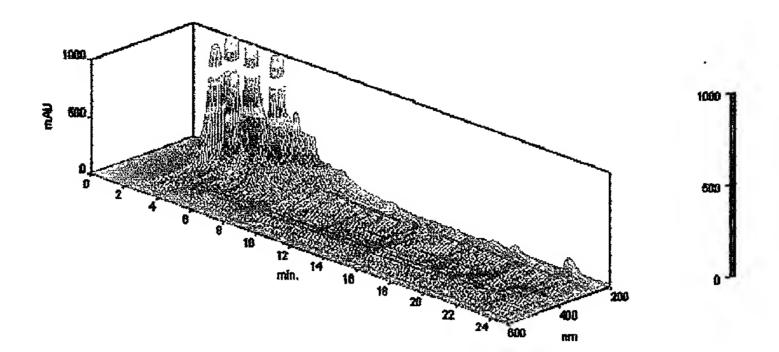


Figure 32



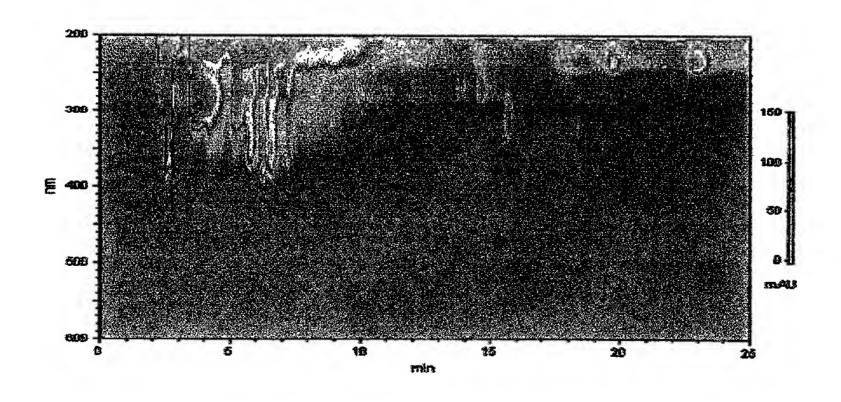
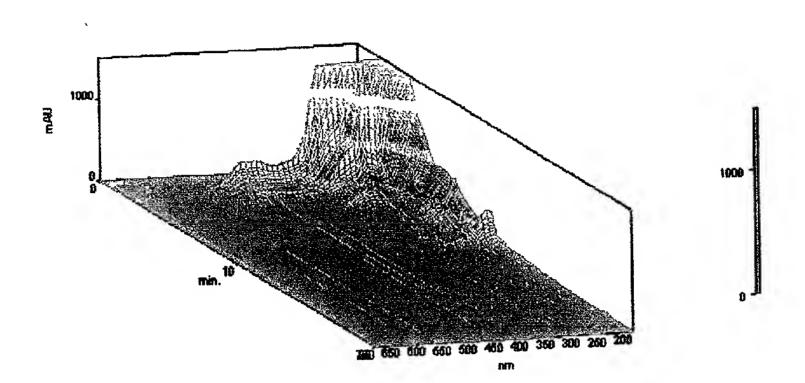


Figure 33



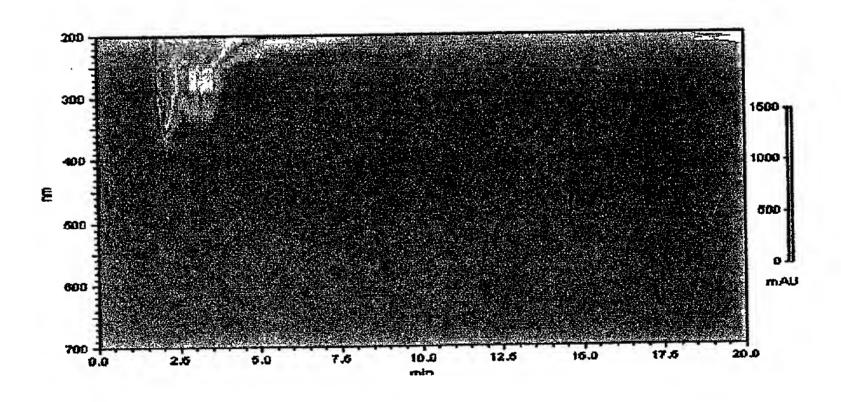
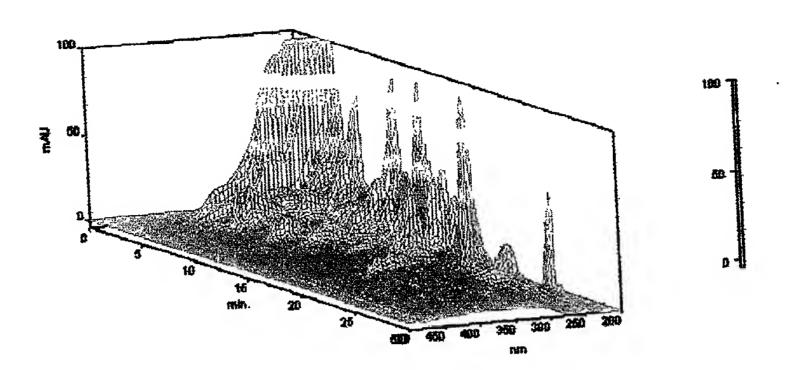


Figure 34



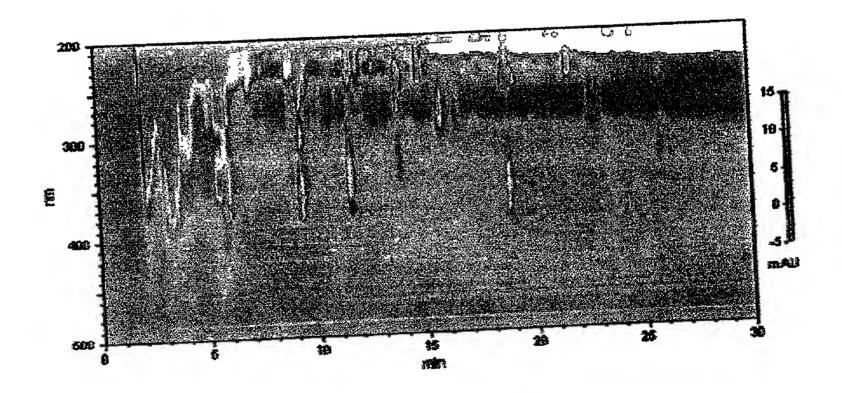
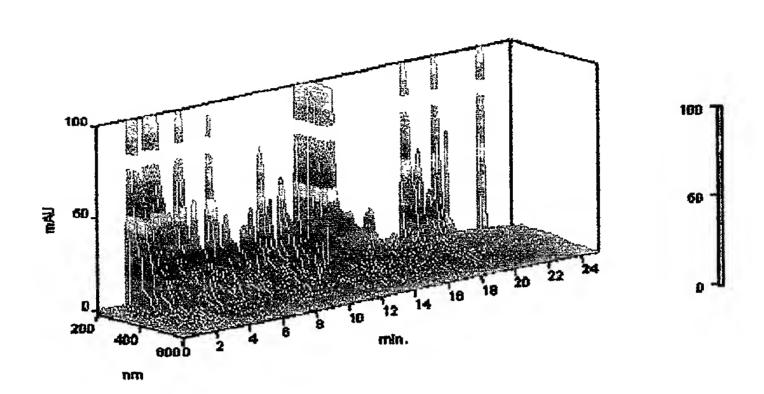


Figure 35



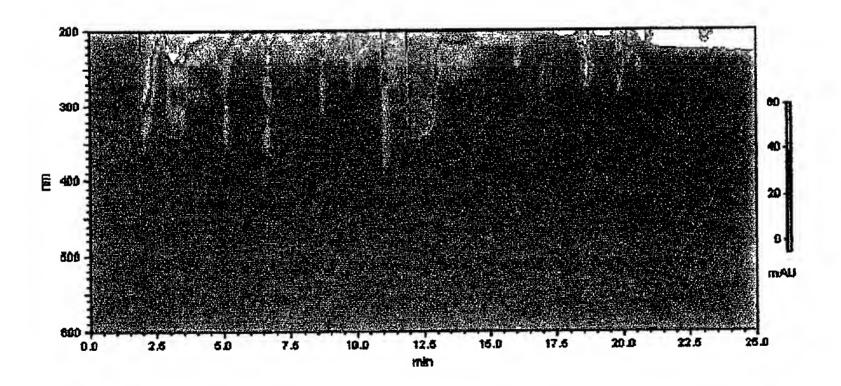
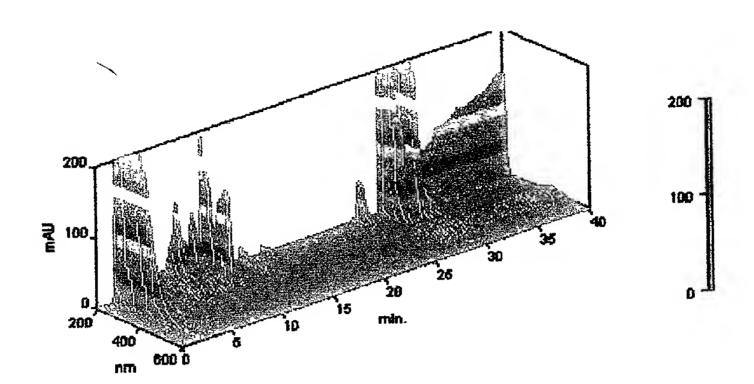


Figure 36



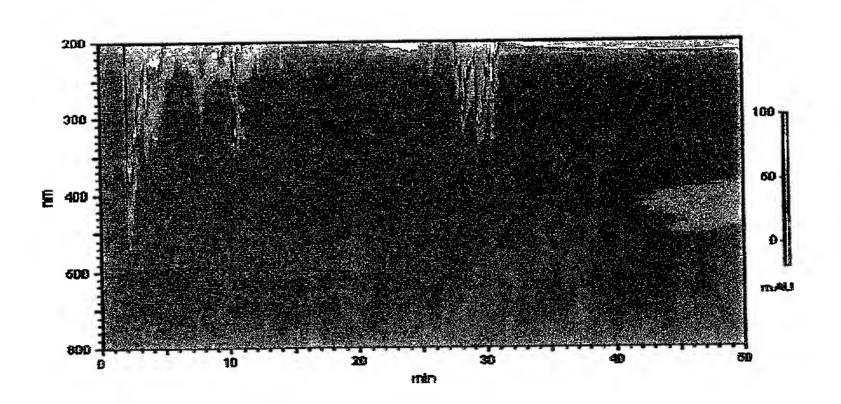
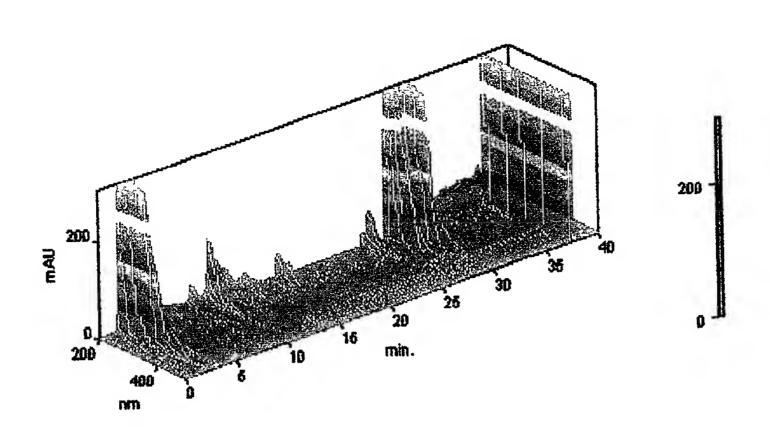


Figure 37



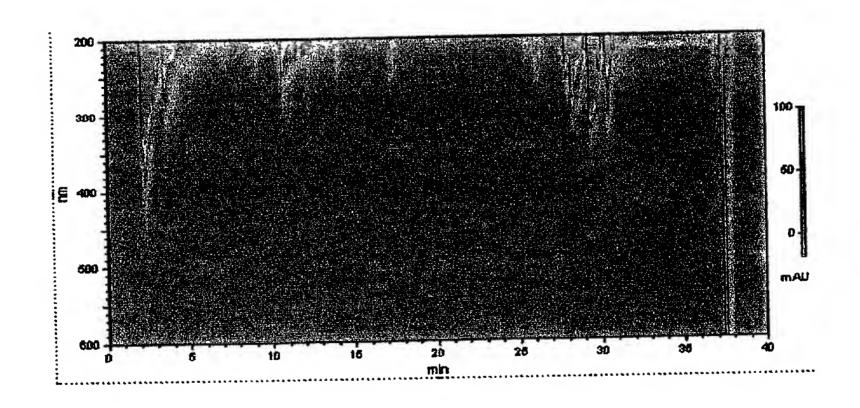
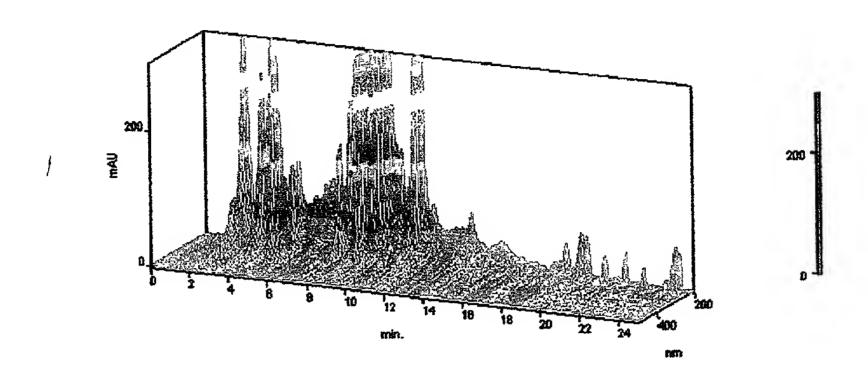


Figure 38



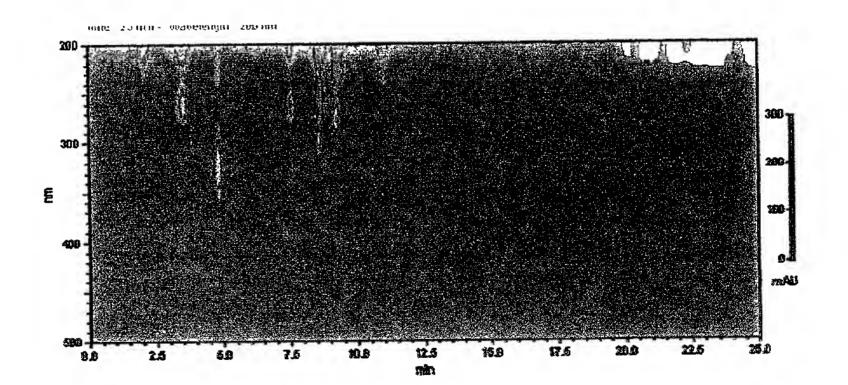
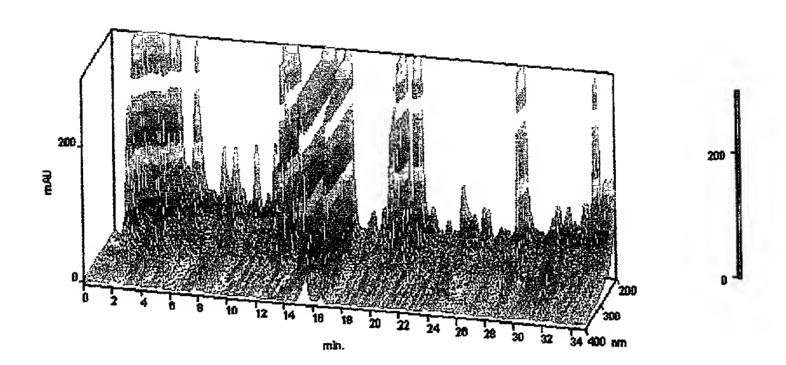


Figure 39



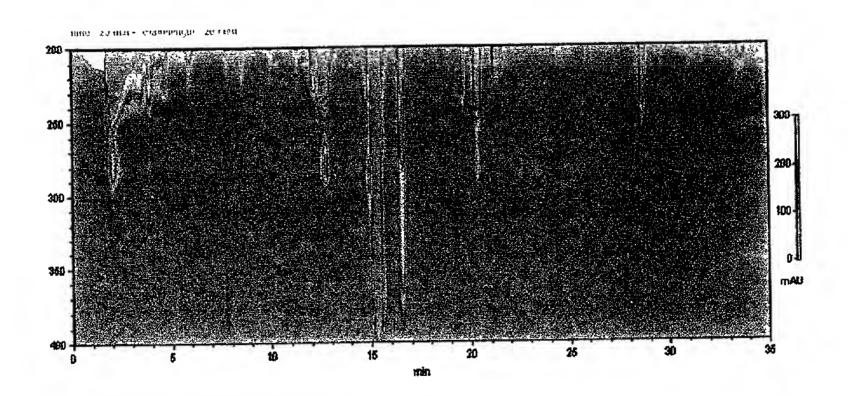
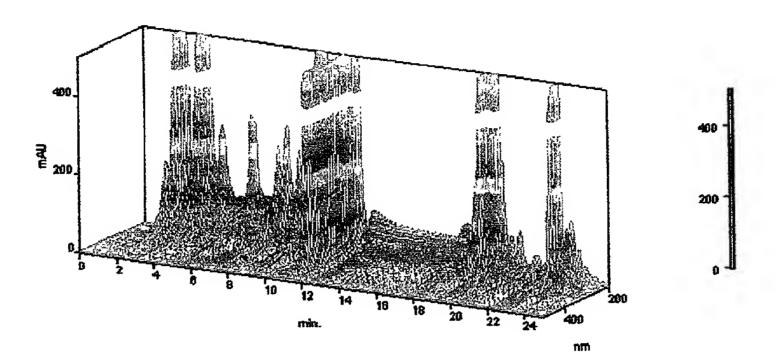


Figure 40



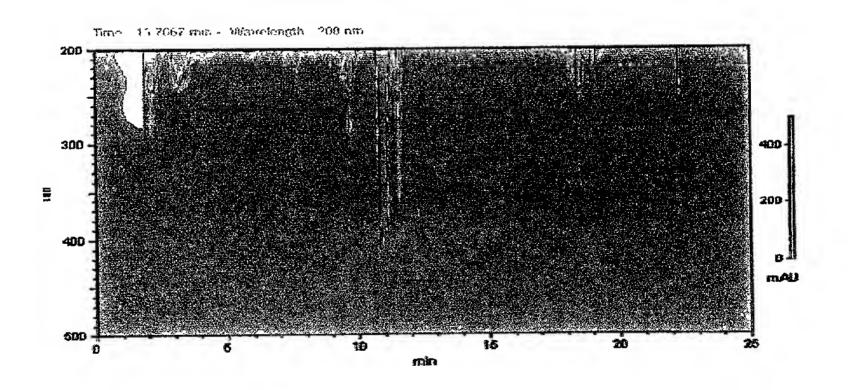
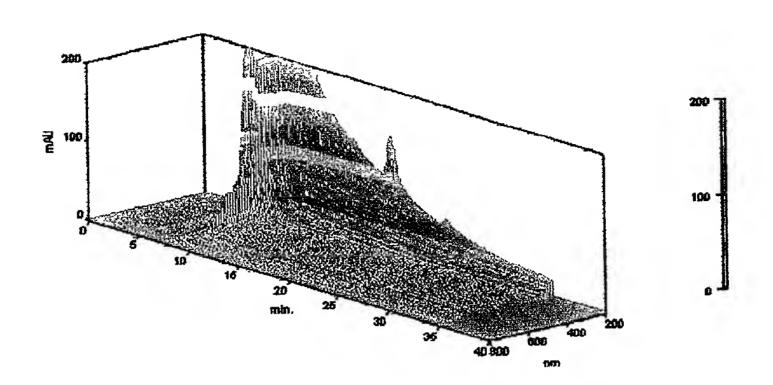


Figure 41



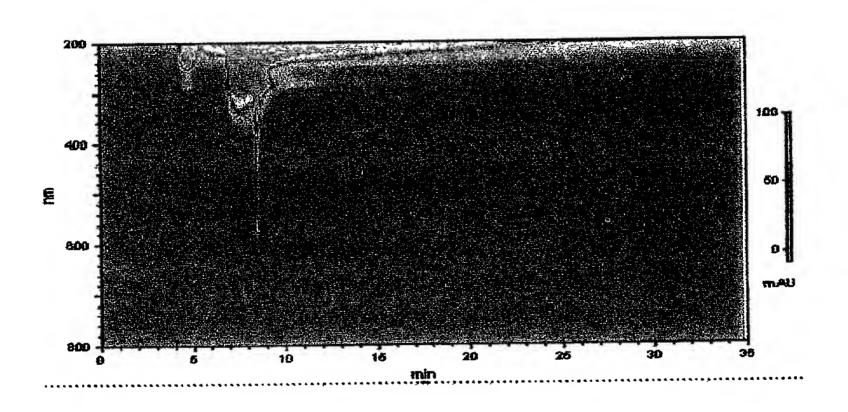
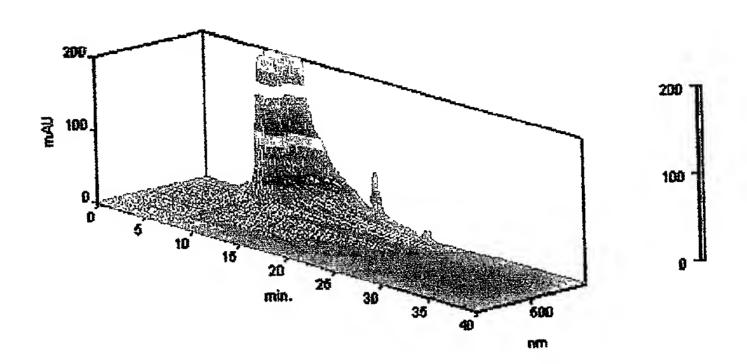


Figure 42



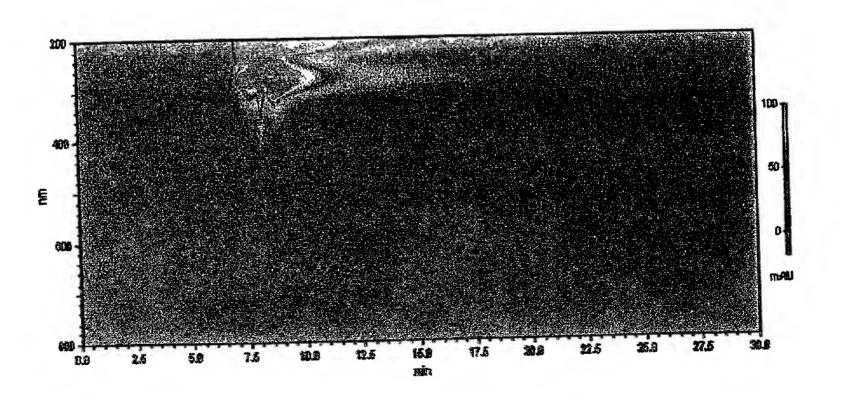
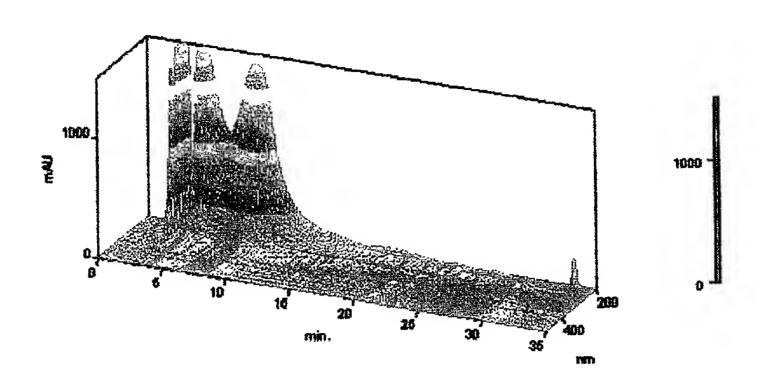


Figure 43



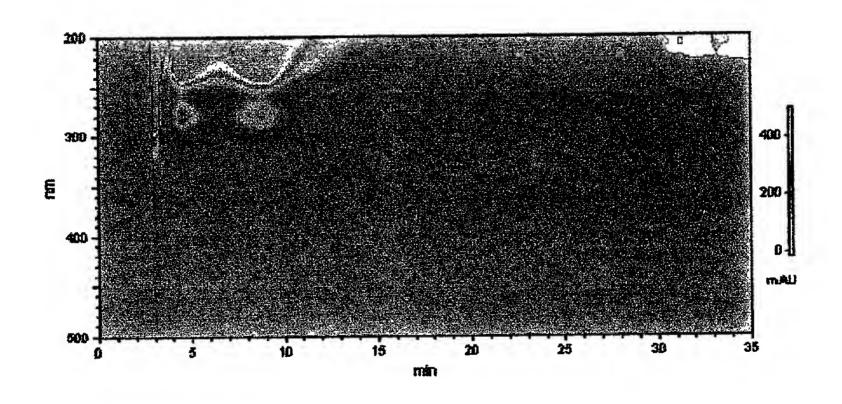
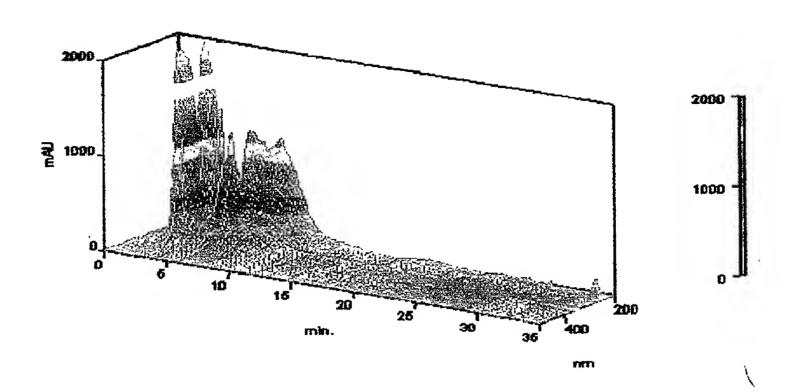


Figure 44



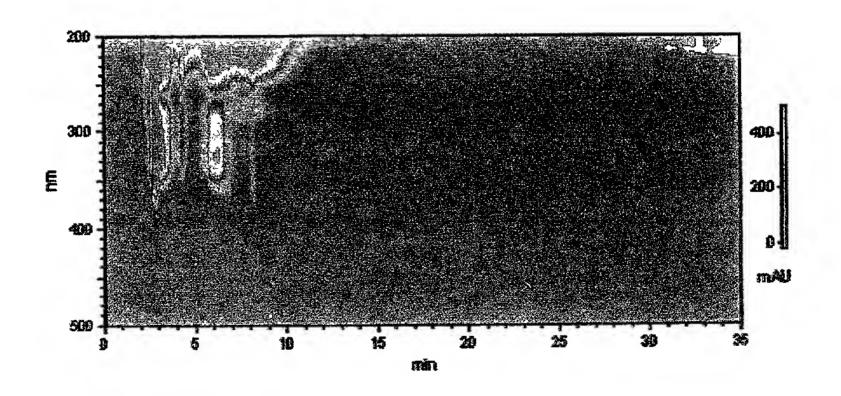
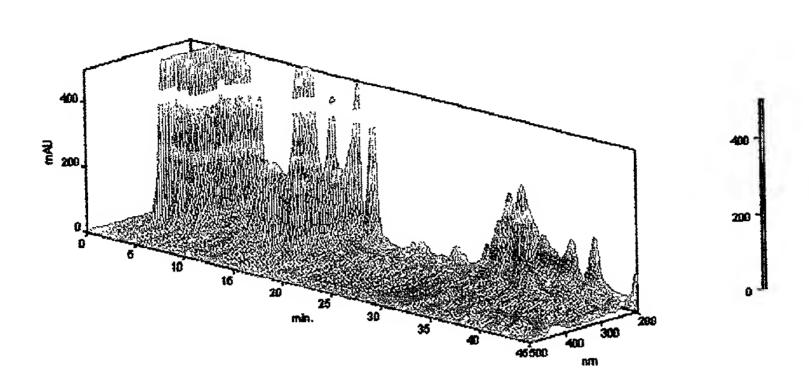


Figure 45



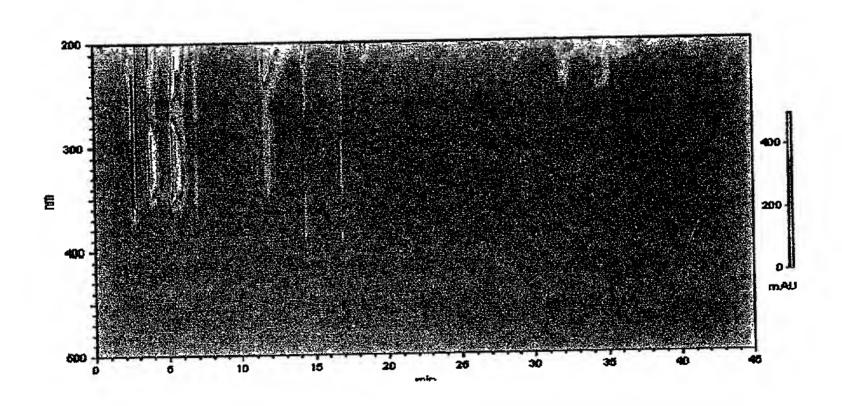
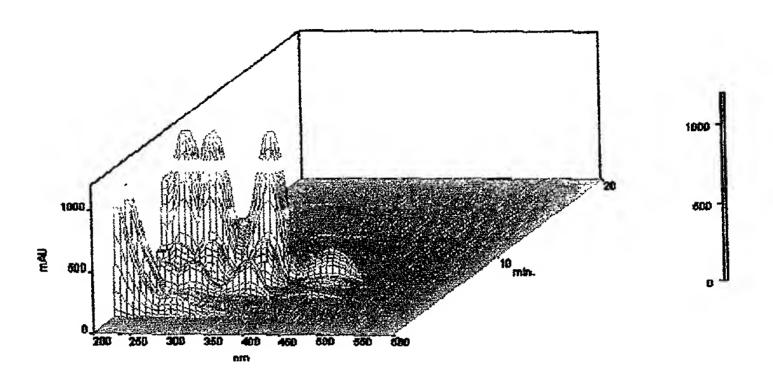


Figure 46



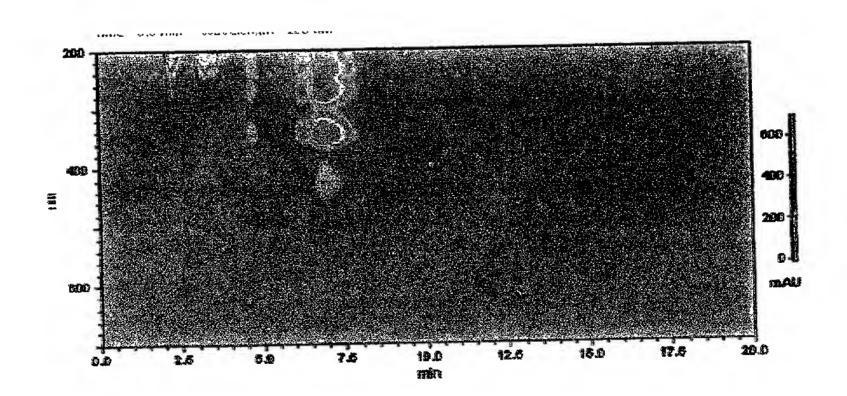
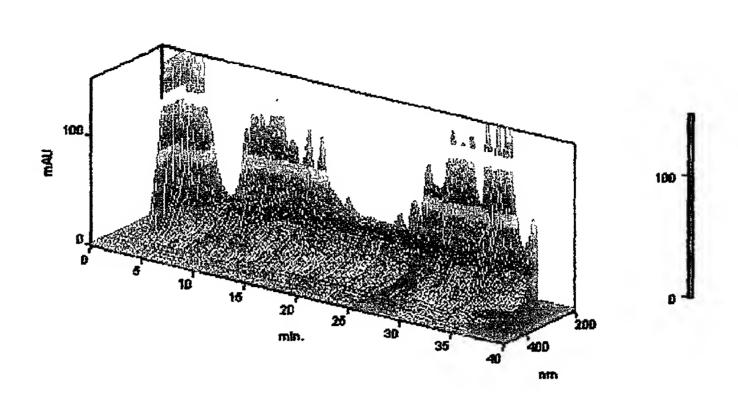


Figure 47



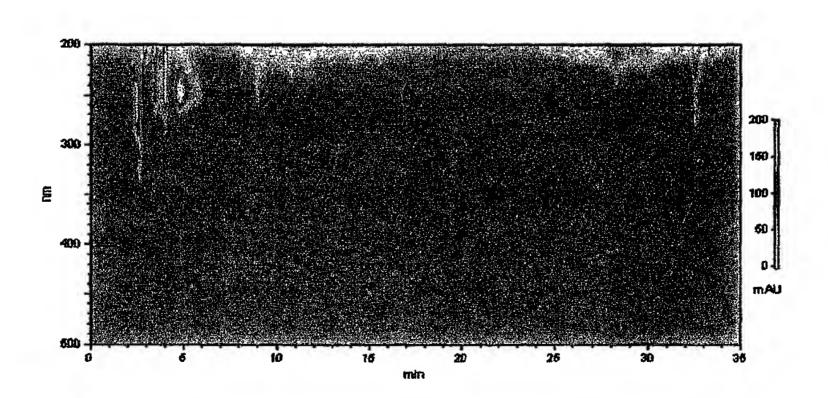
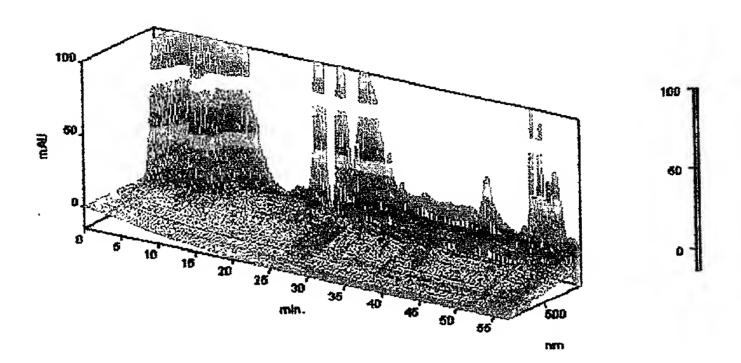


Figure 48



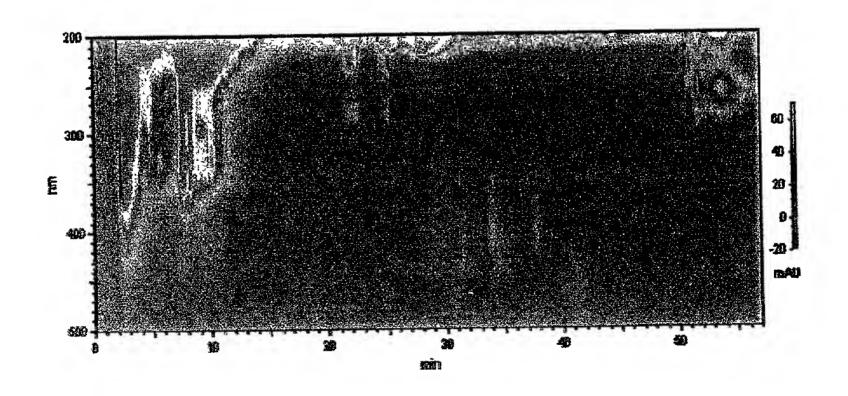
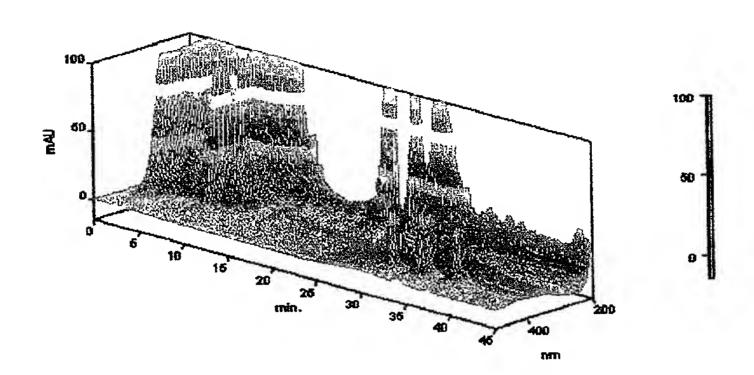


Figure 49



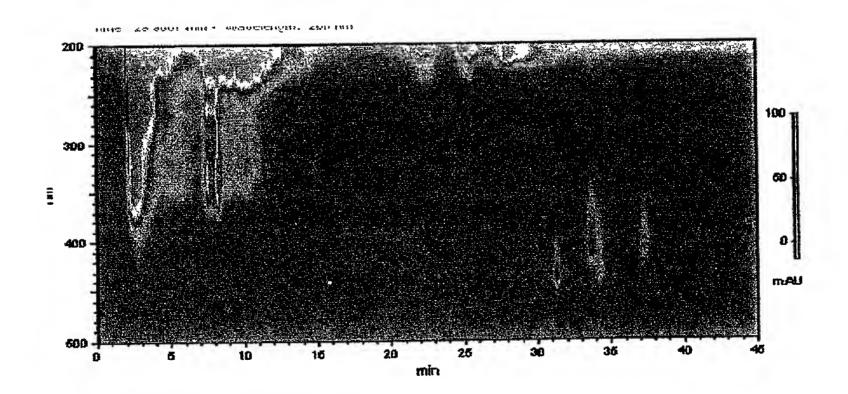
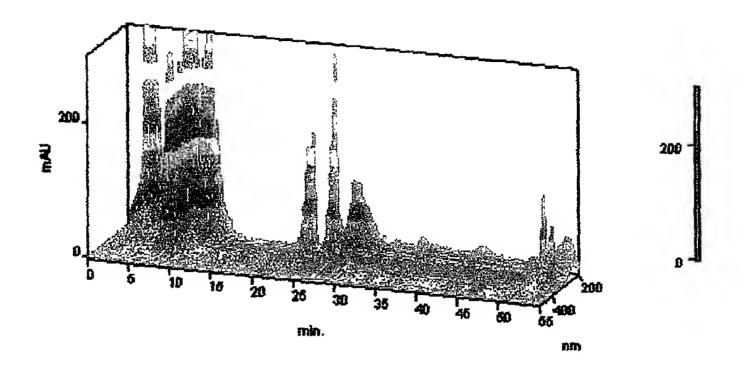


Figure 50



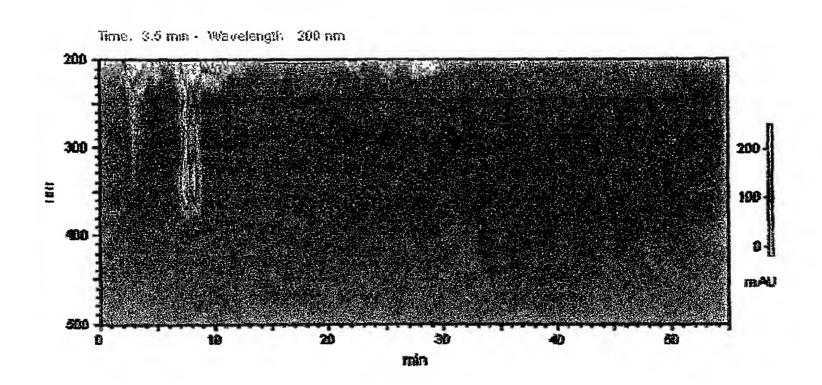
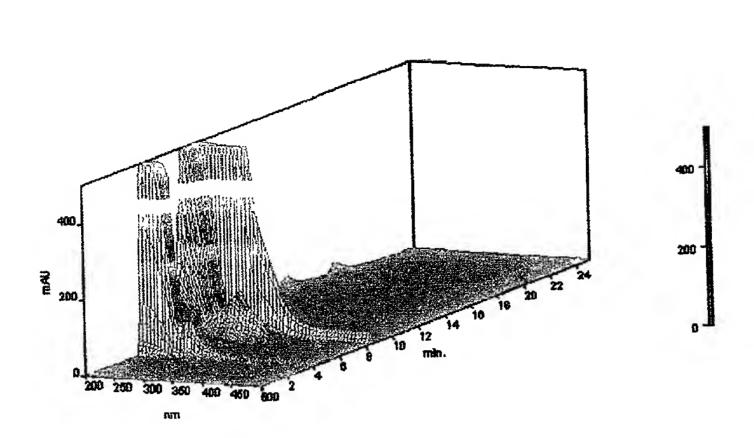


Figure 51



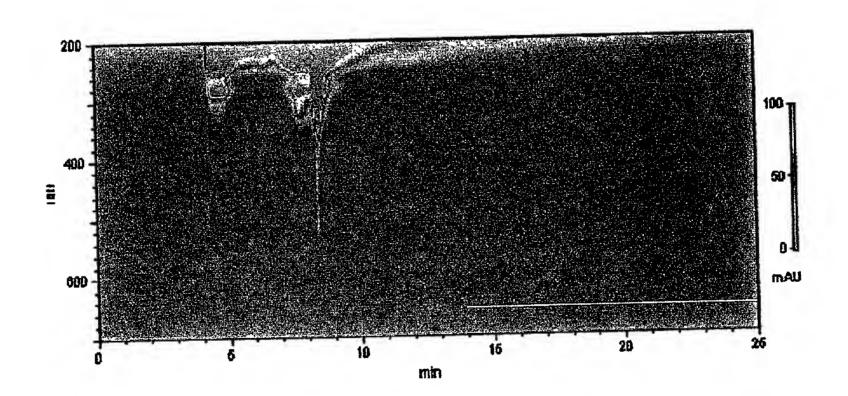
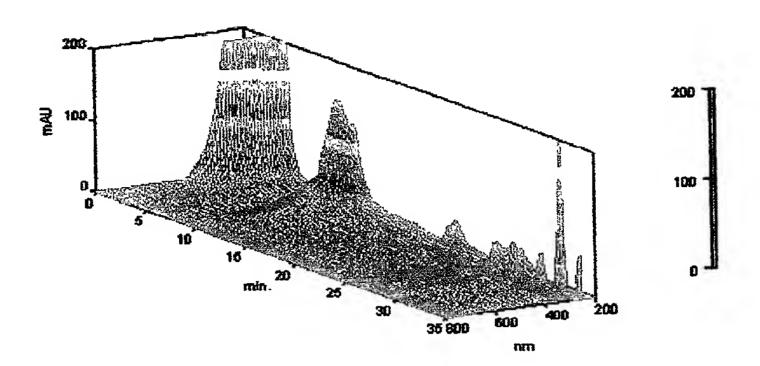


Figure 52



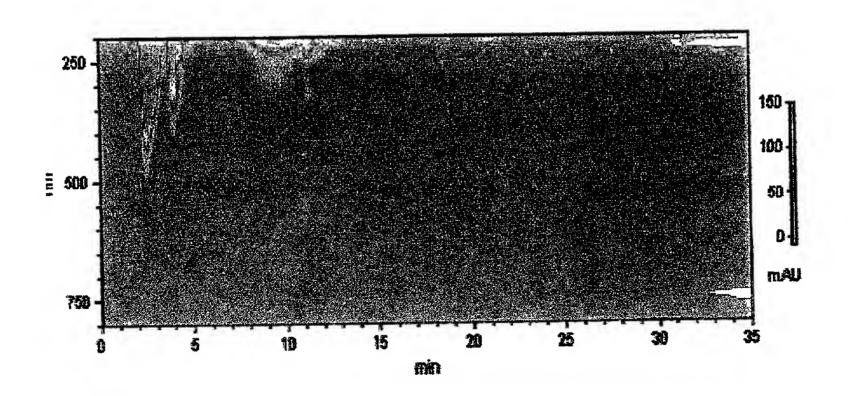
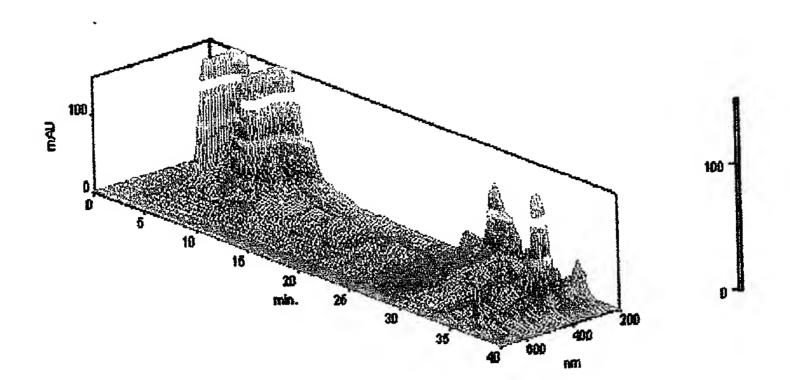


Figure 53



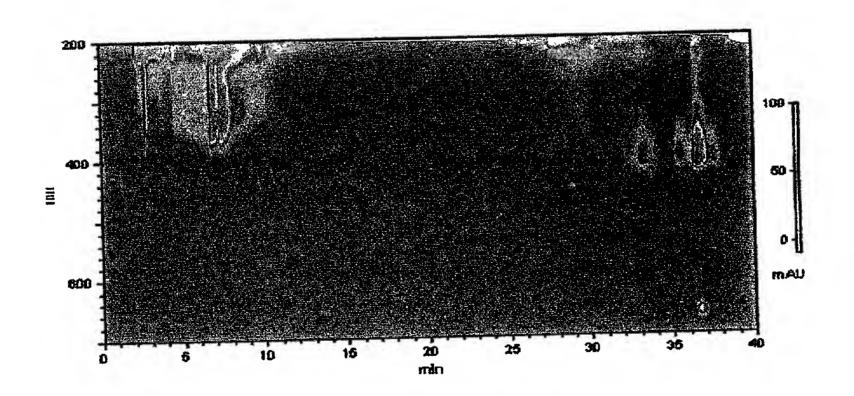
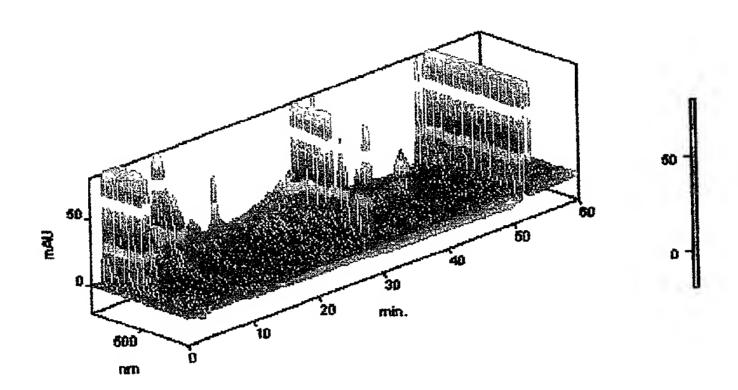


Figure 54



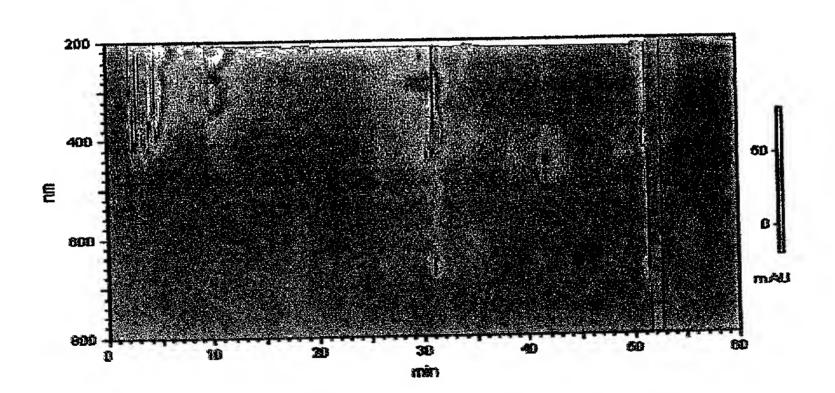
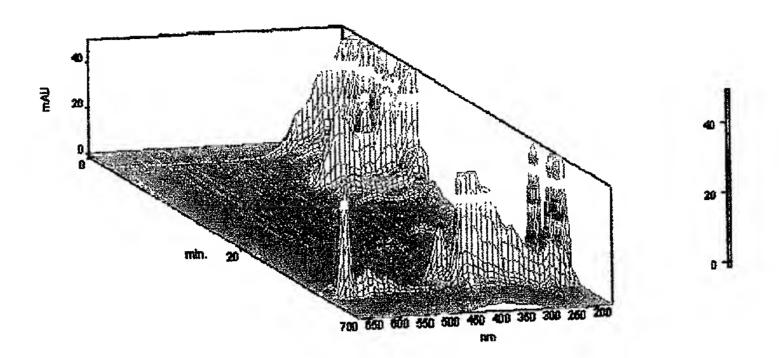


Figure 55



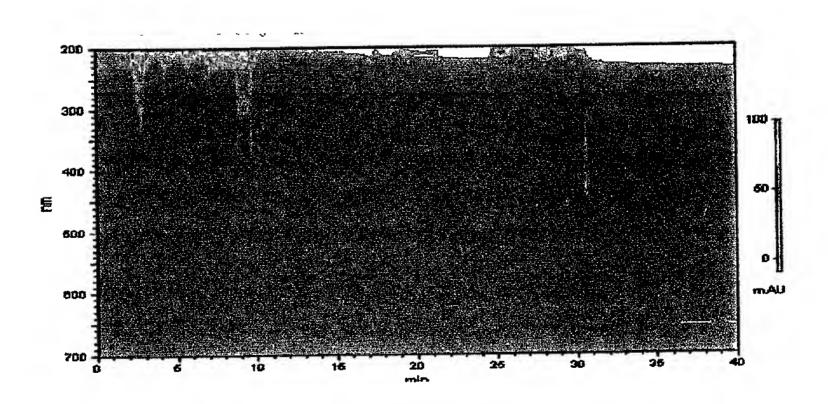
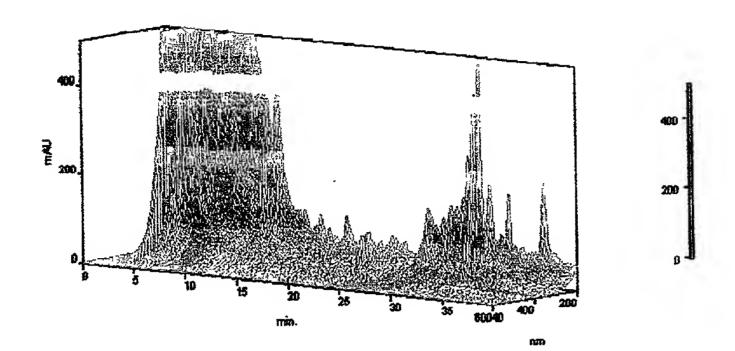


Figure 56



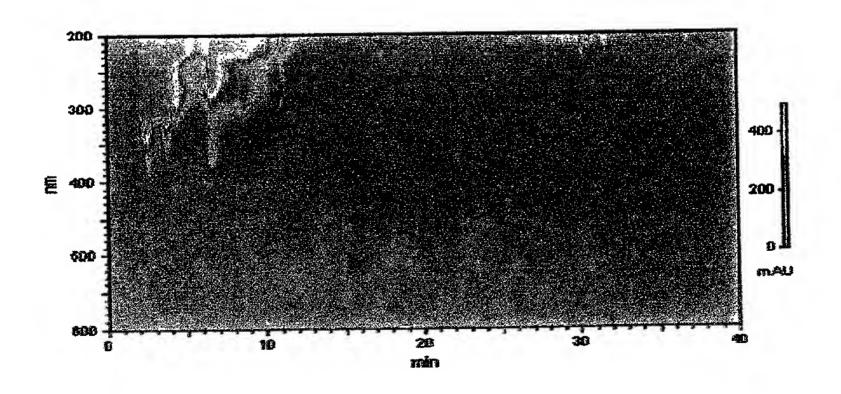
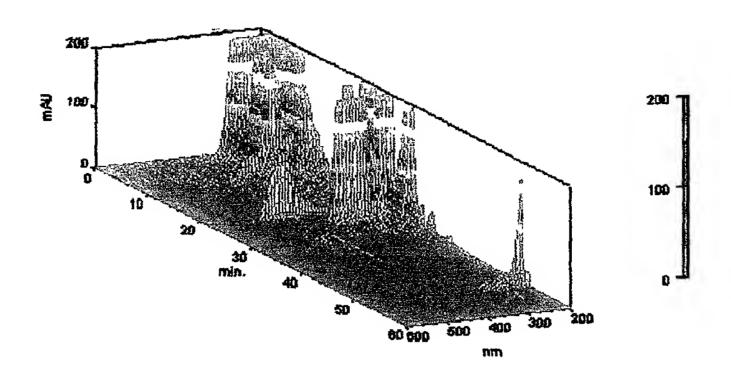


Figure 57



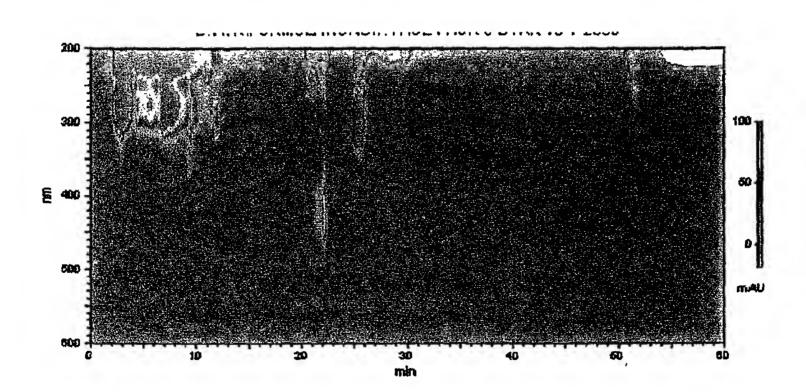
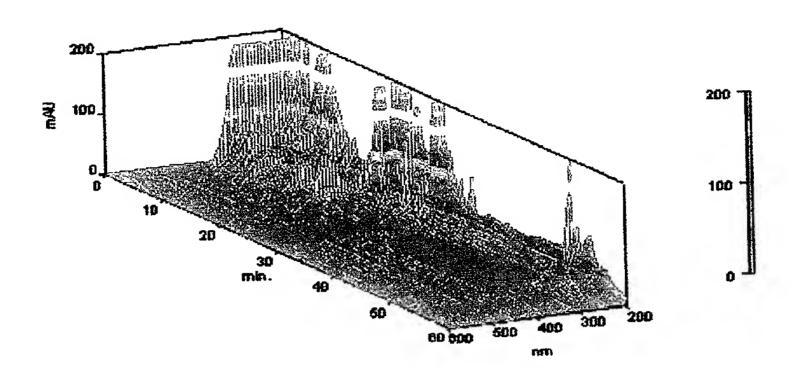


Figure 58



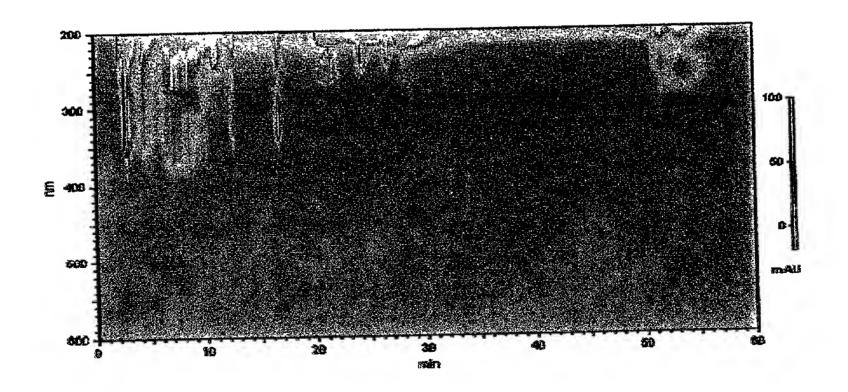
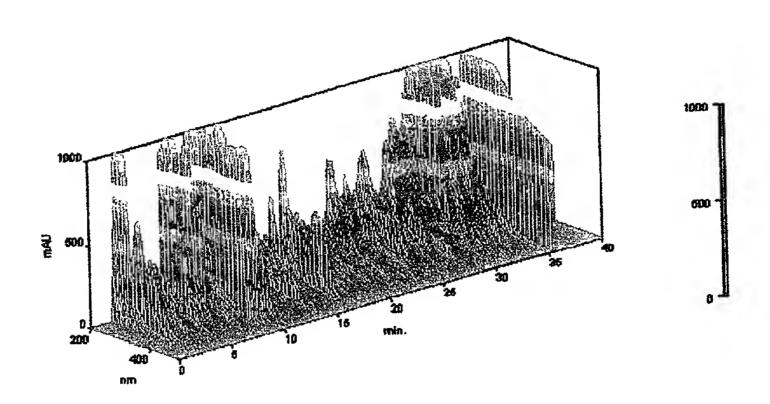
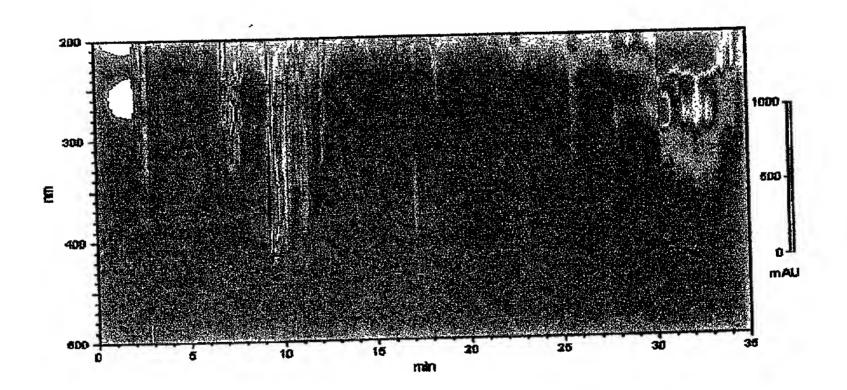
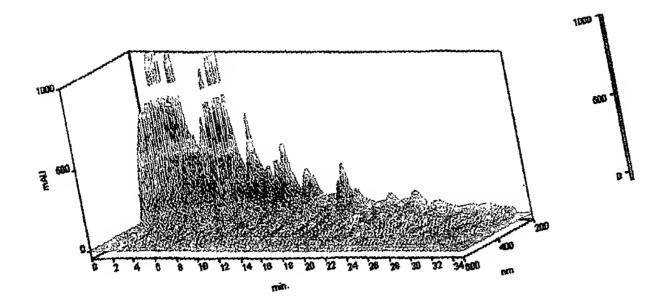
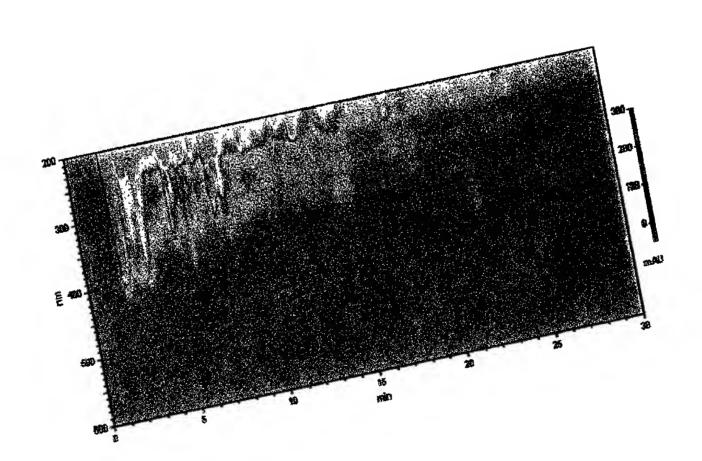


Figure 59





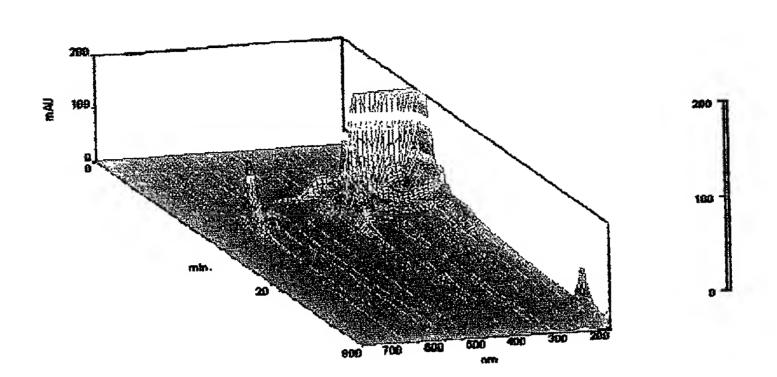




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Figure 61



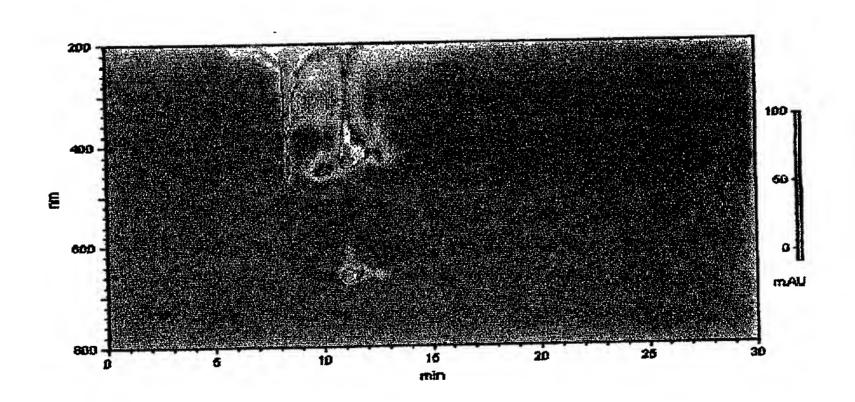
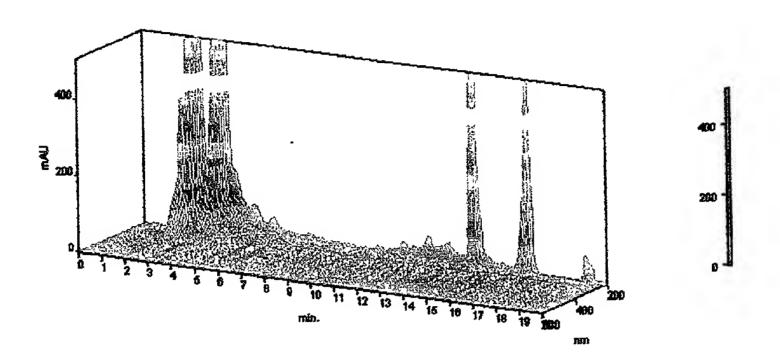


Figure 62



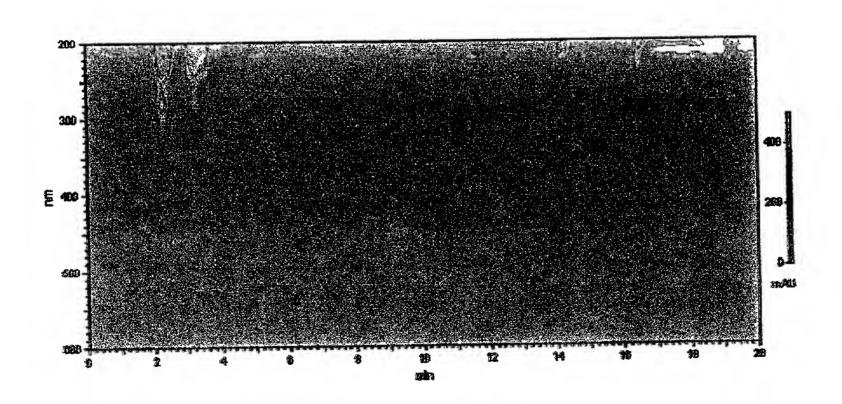
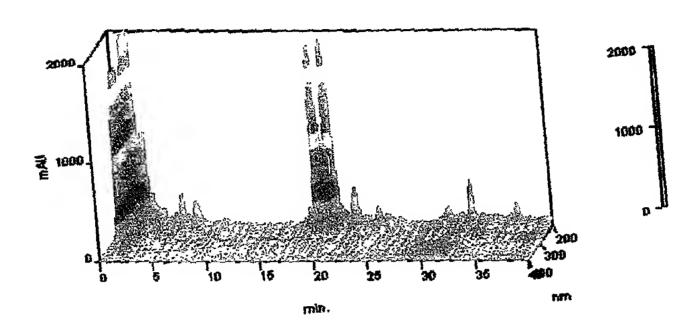


FIGURE 63



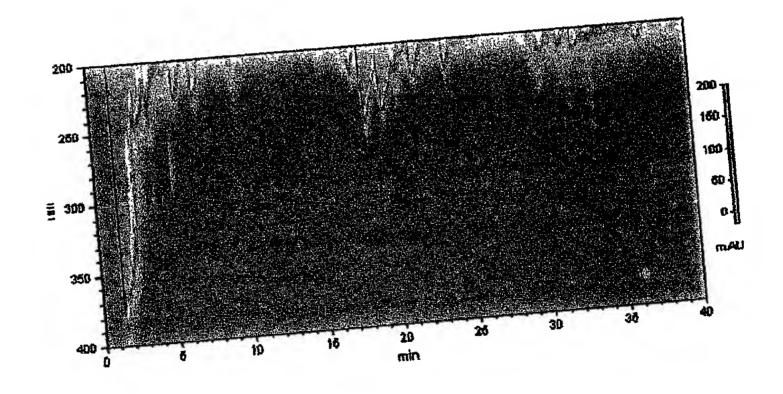
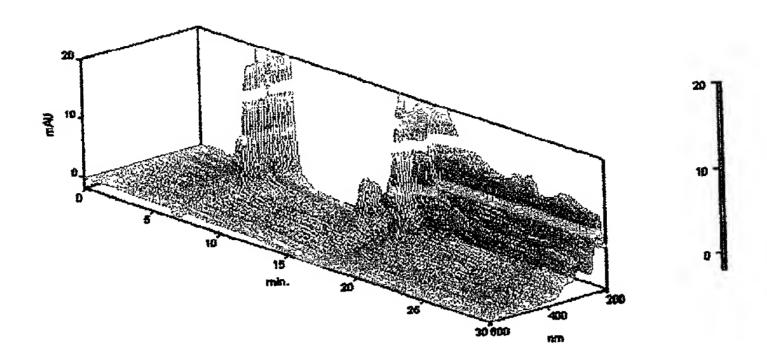


Figure 64



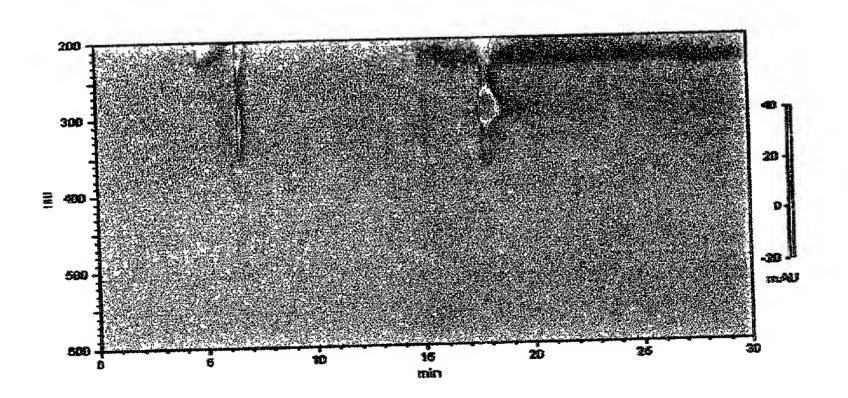
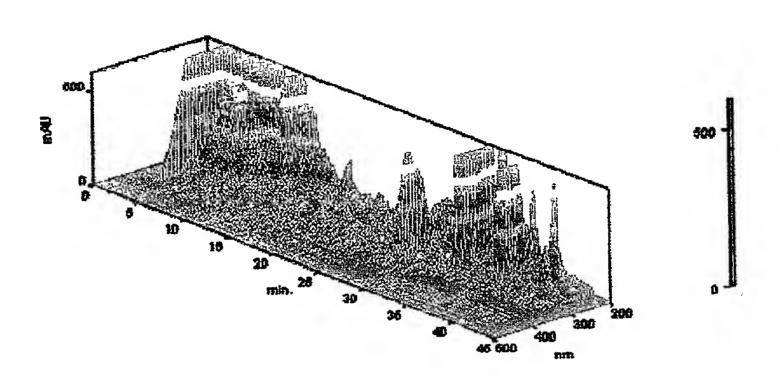


Figure 65



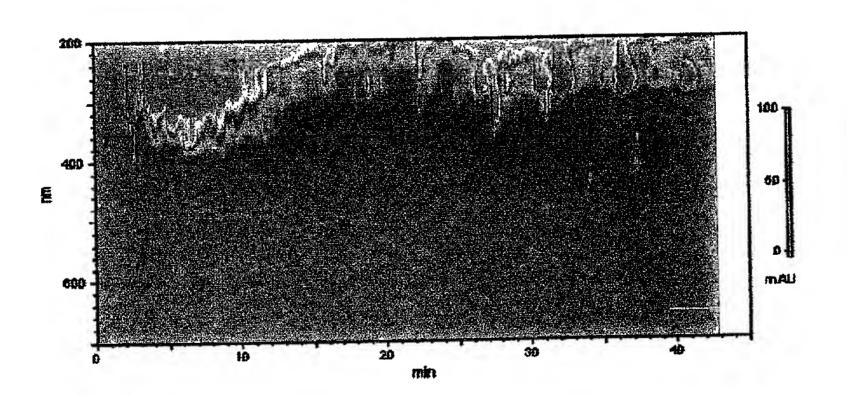
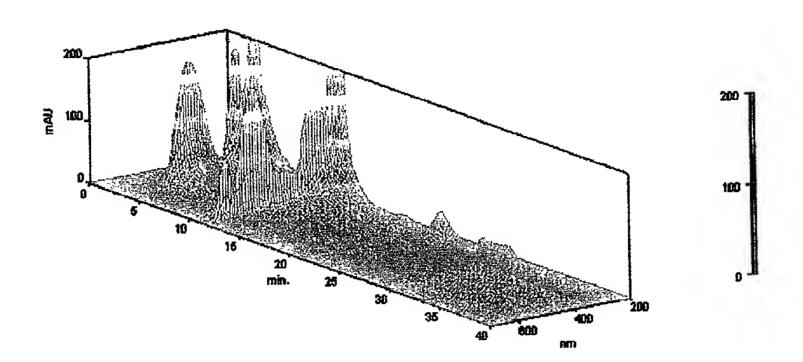


Figure 66



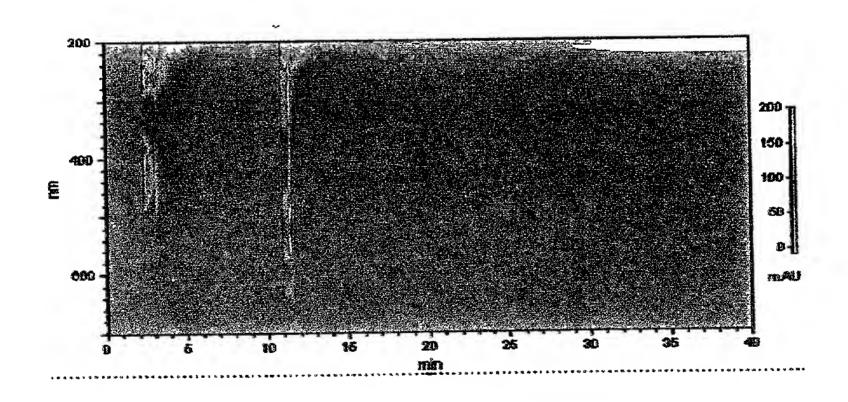
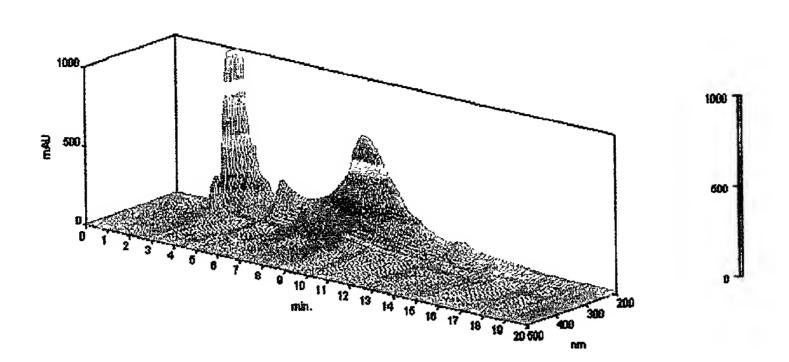


Figure 67



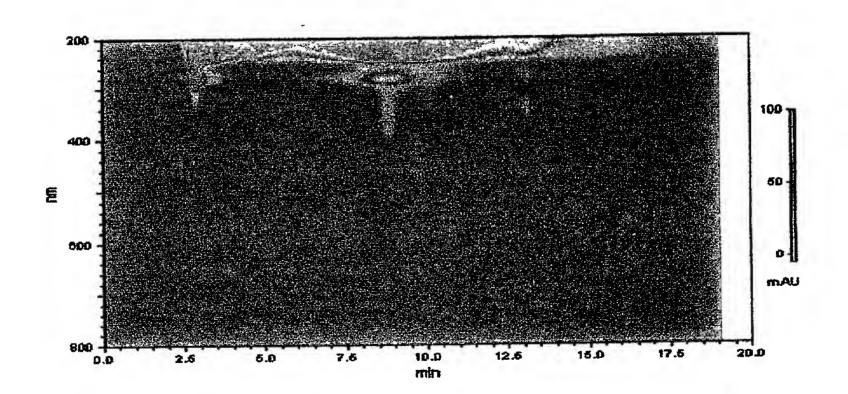
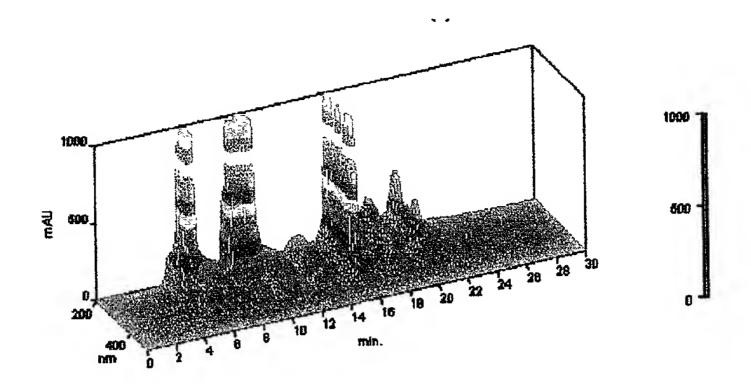


Figure 68

s 1



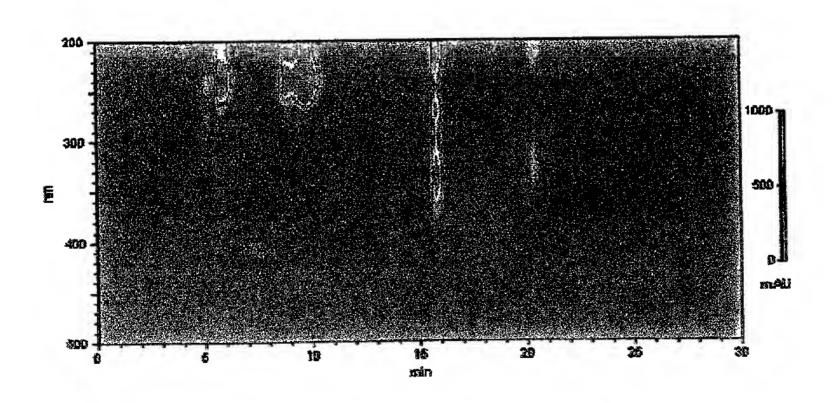
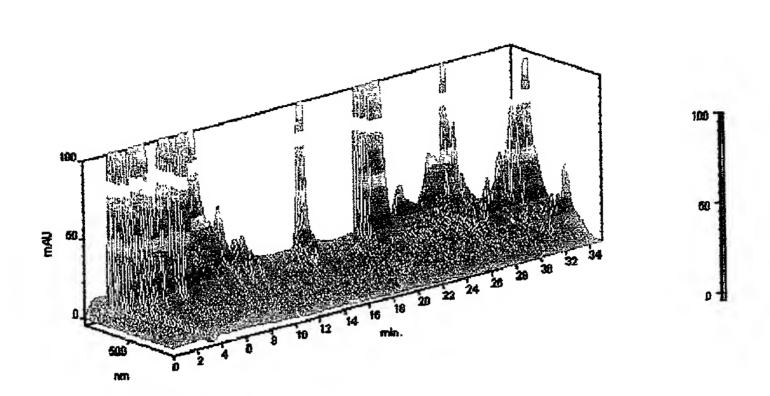


Figure 69



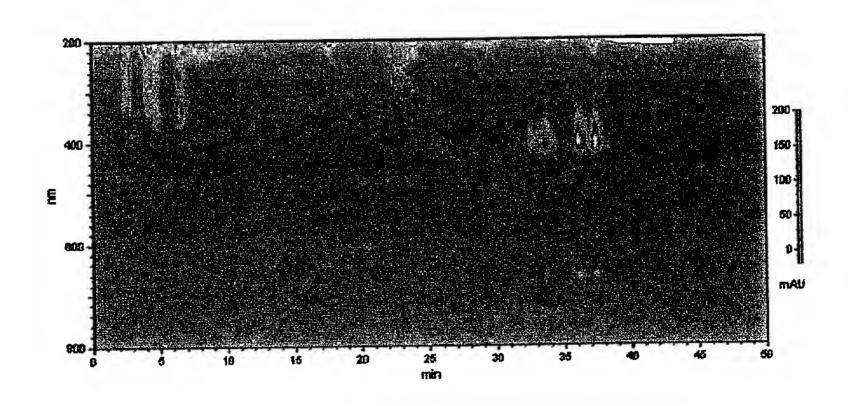
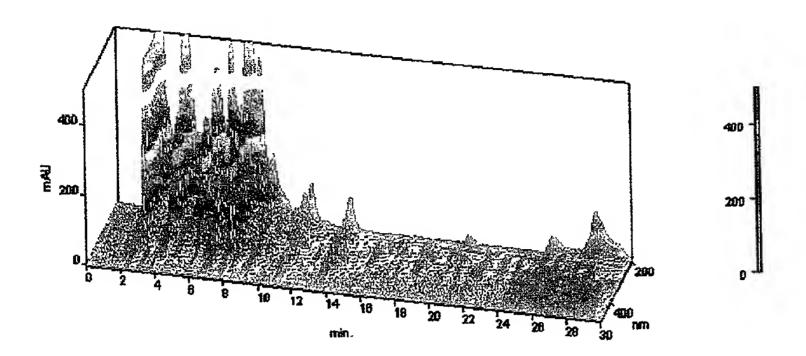


Figure 70



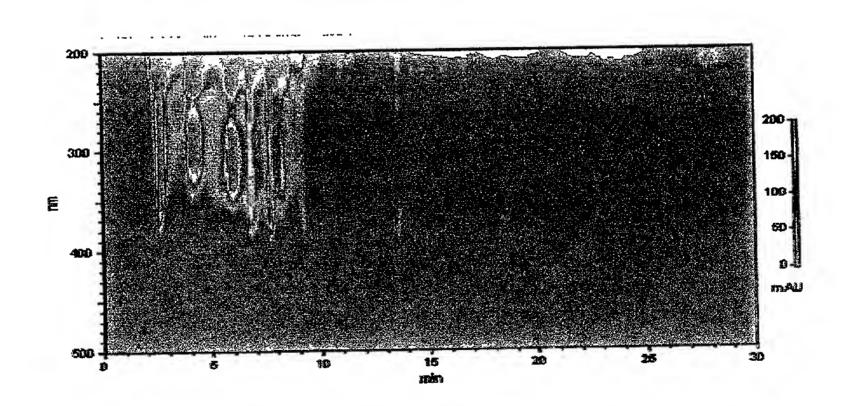
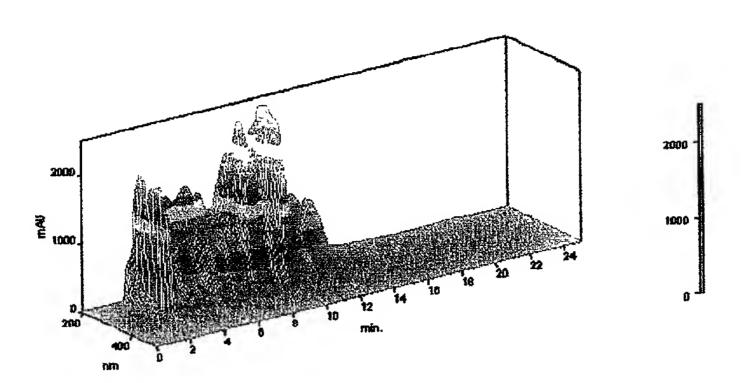


Figure 71



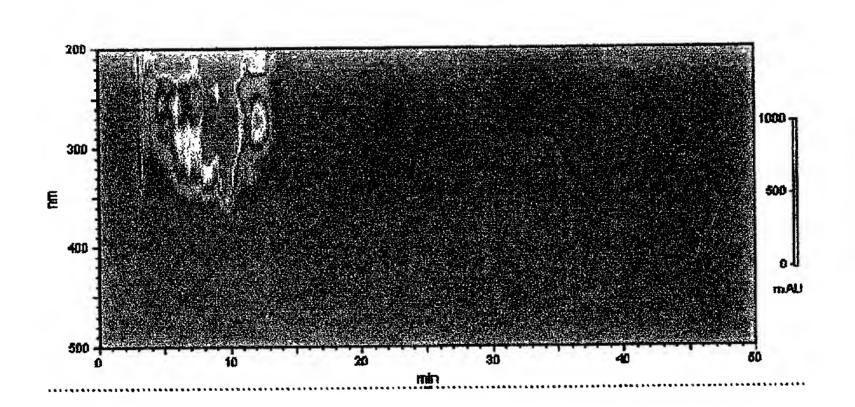
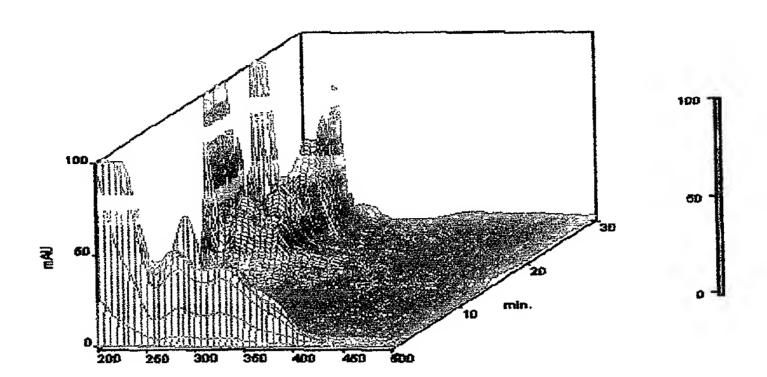


Figure 72



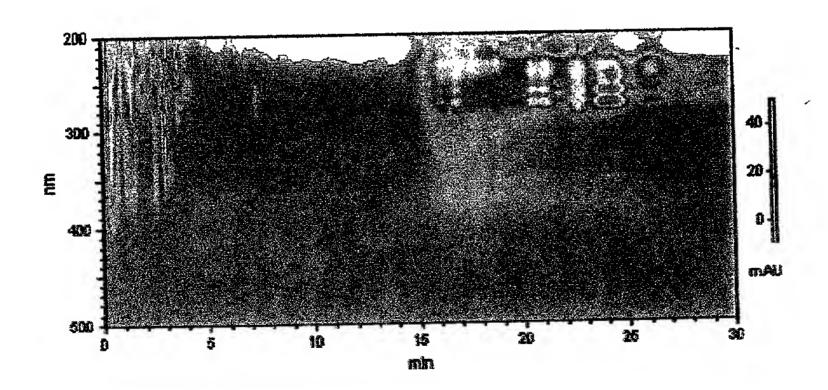
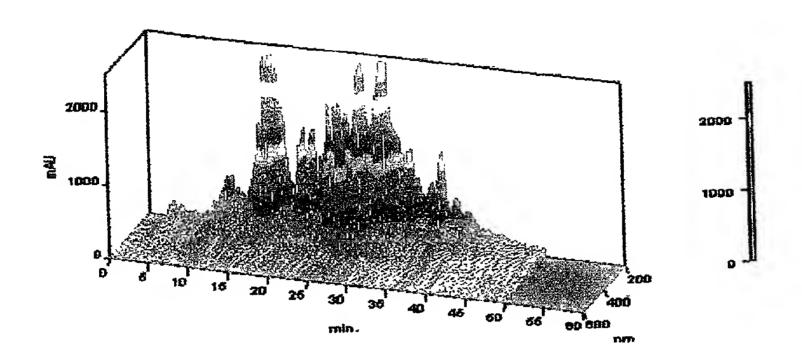


Figure 73



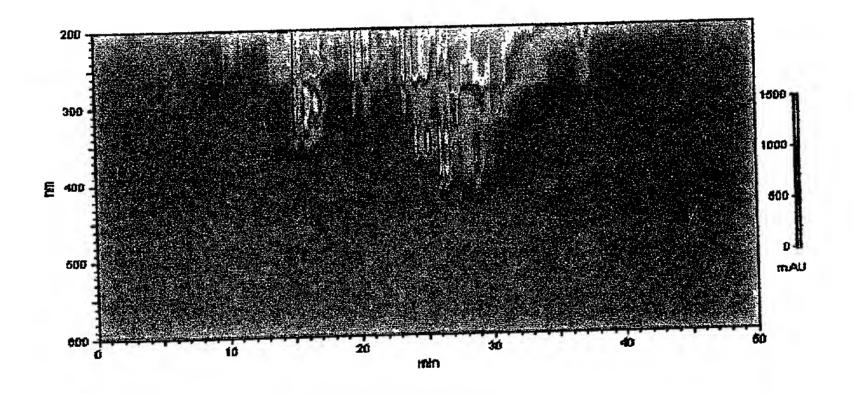
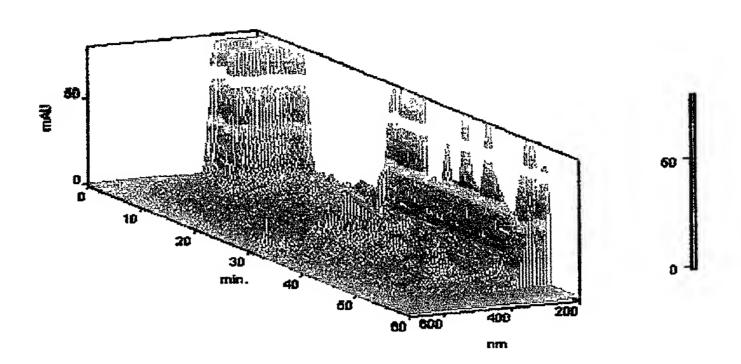


Figure 74



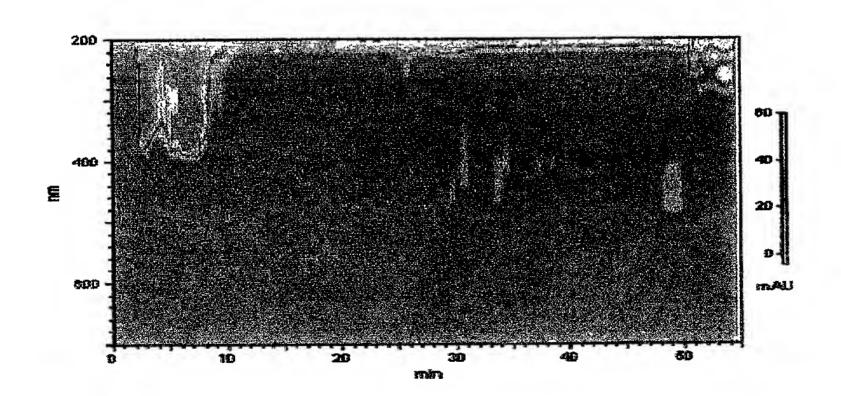
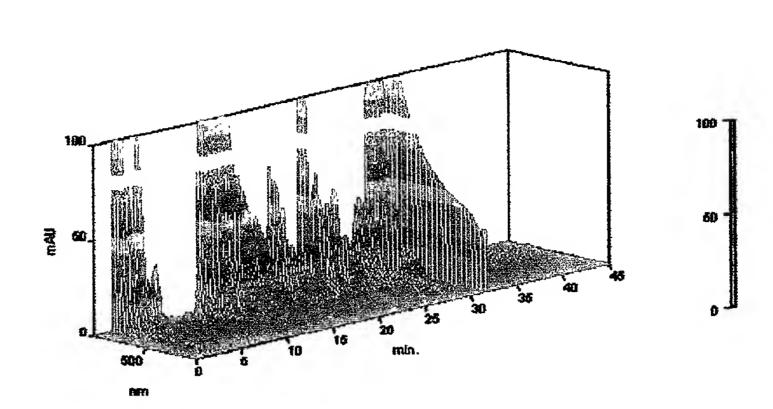


Figure 75



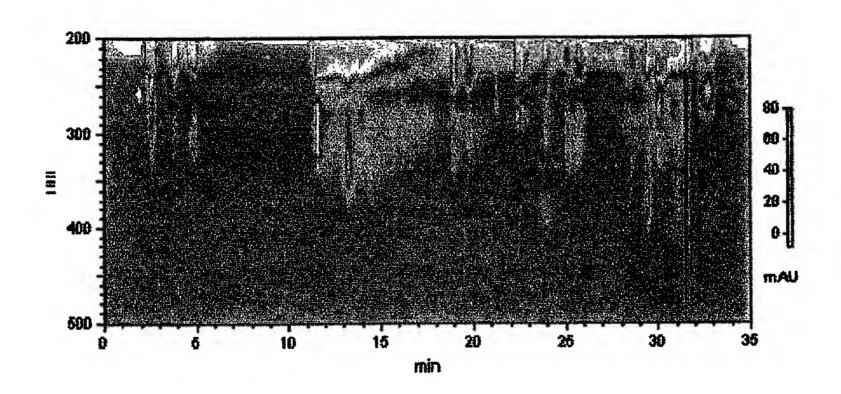
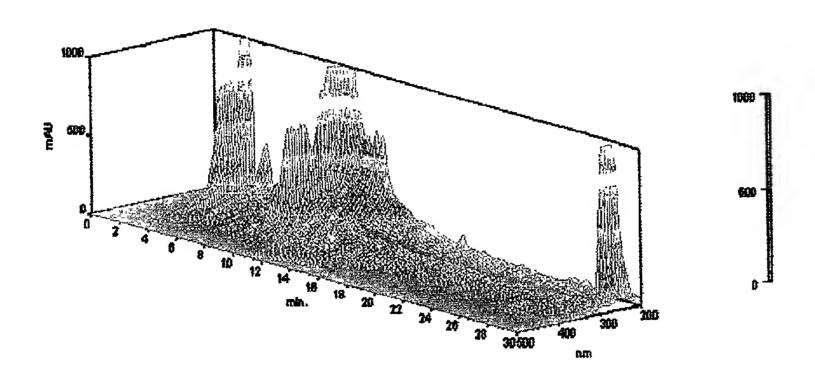


Figure 76

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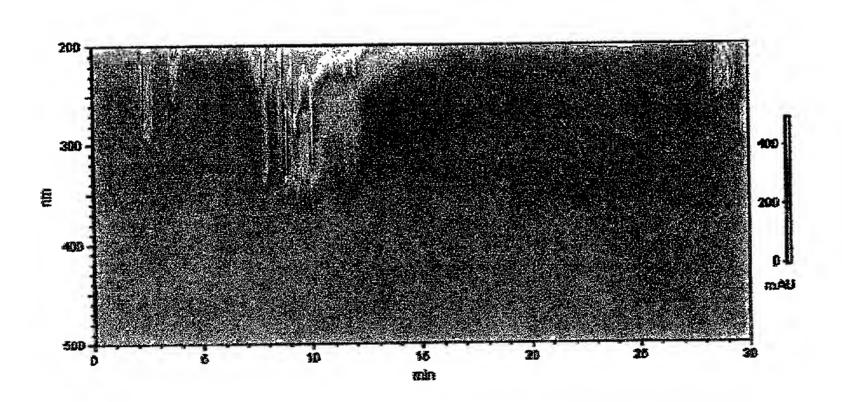
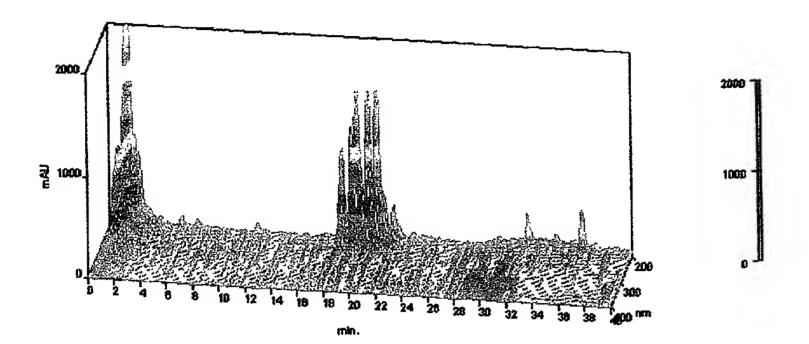


Figure 77



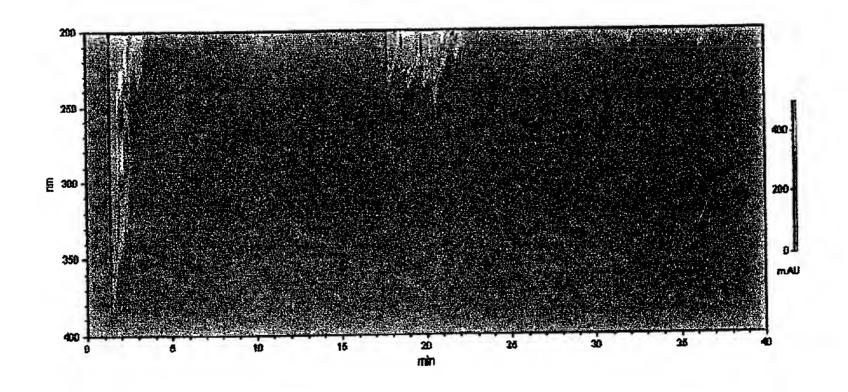
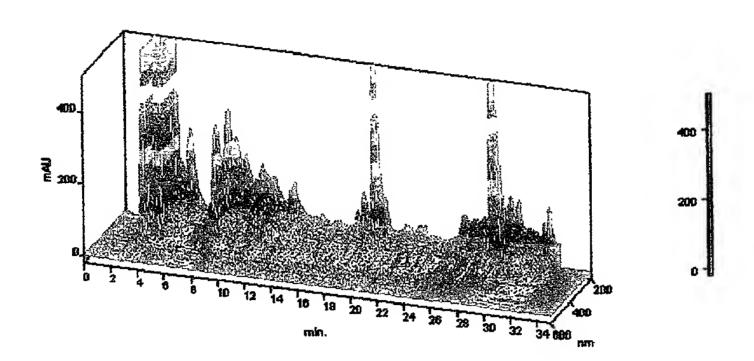


Figure 78



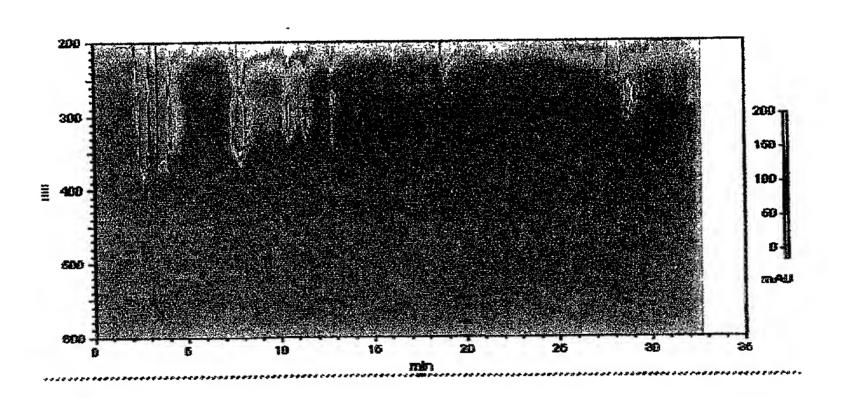
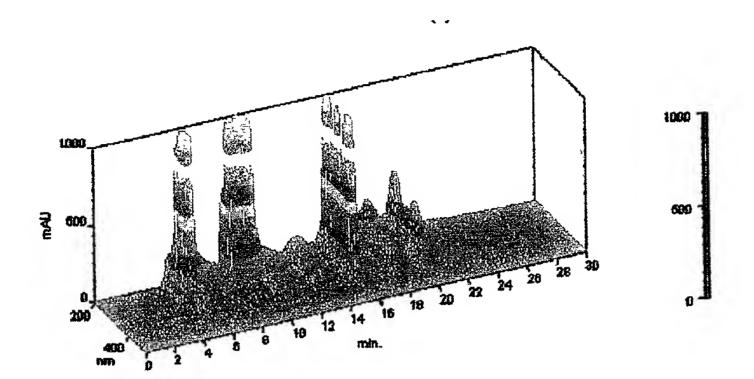


Figure 79



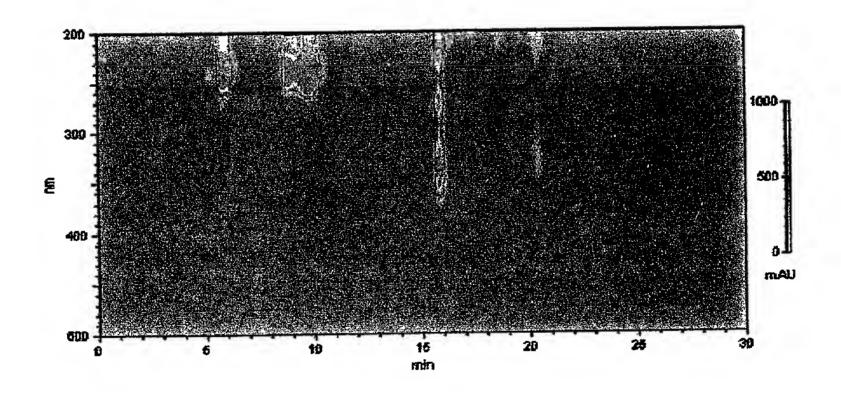
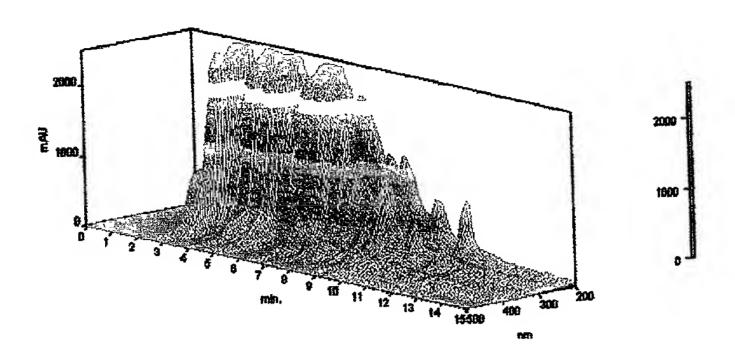


Figure 80



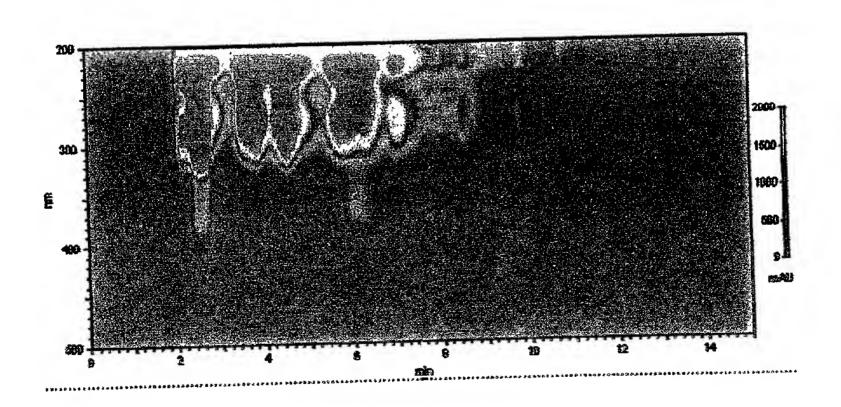
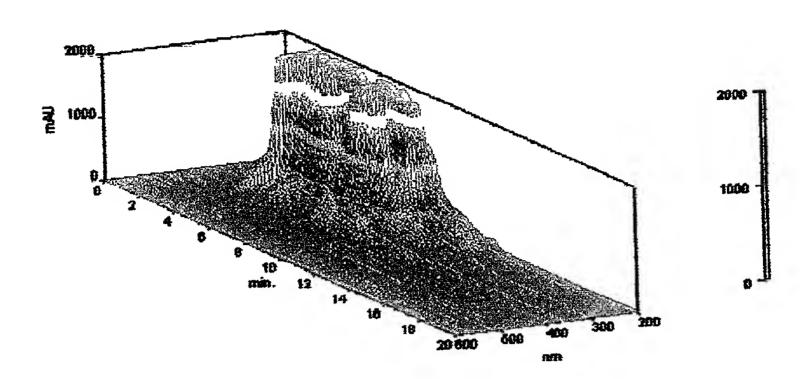


Figure 81



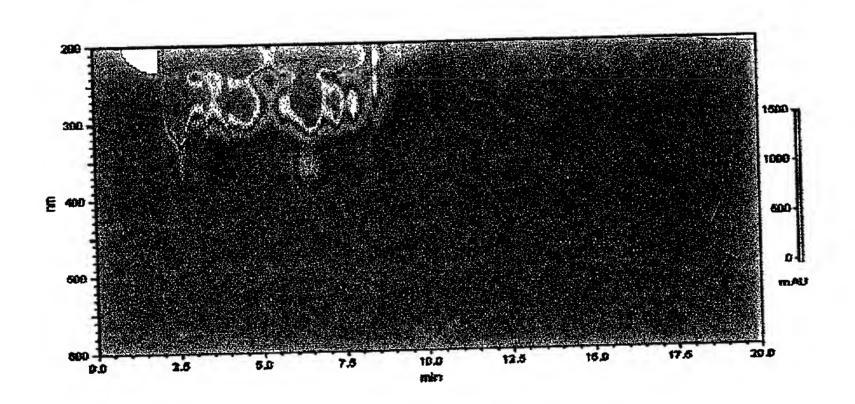
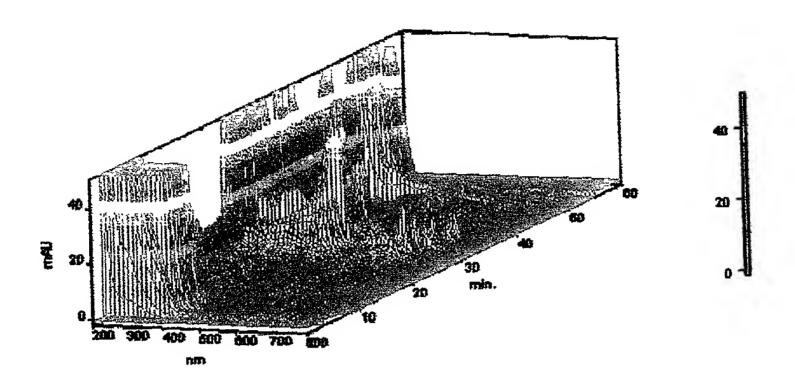


Figure 82



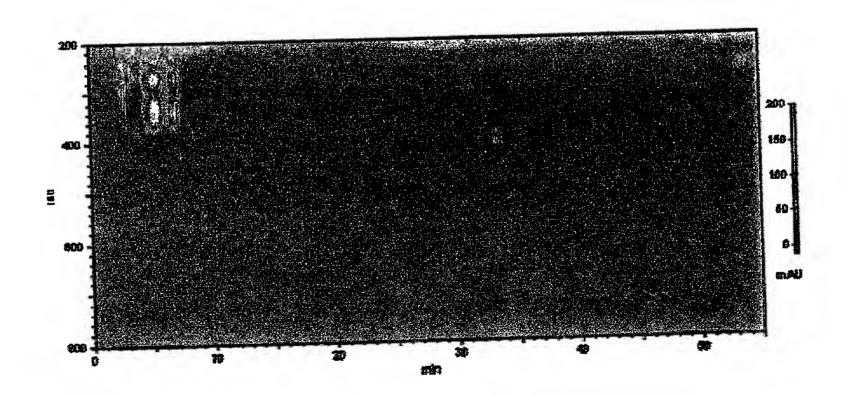
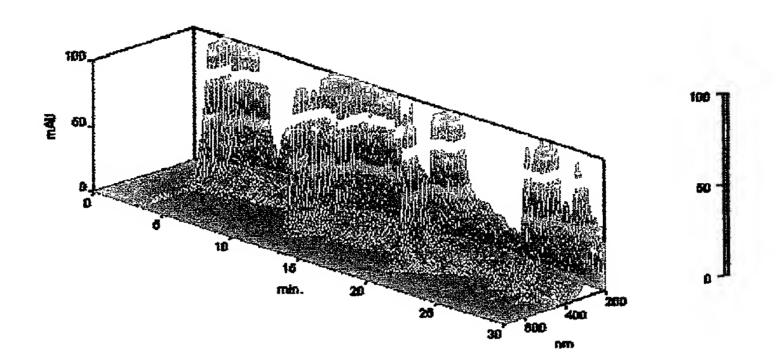


Figure 83



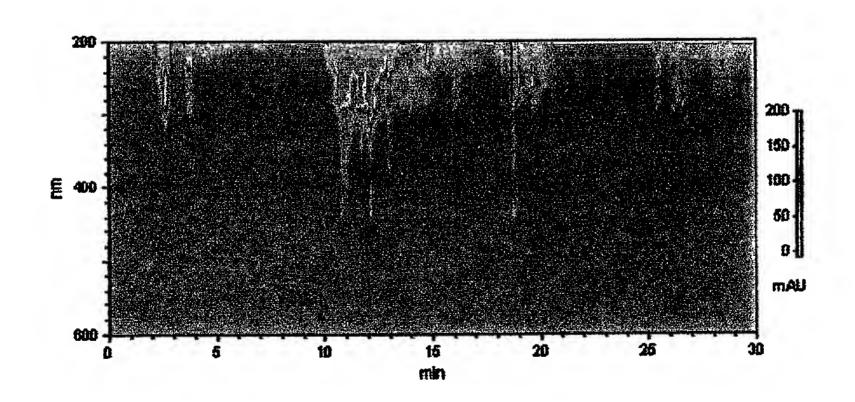
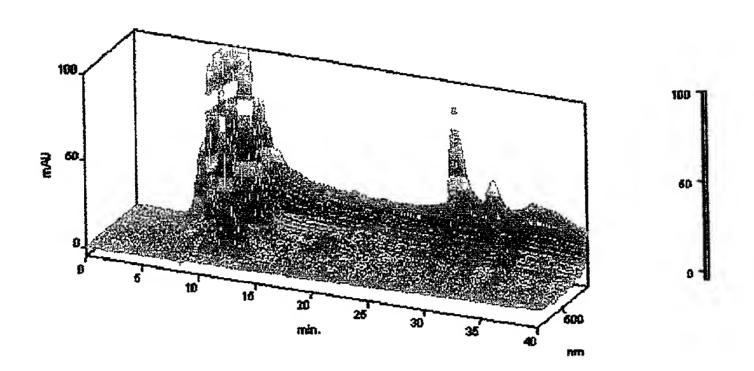


Figure 84



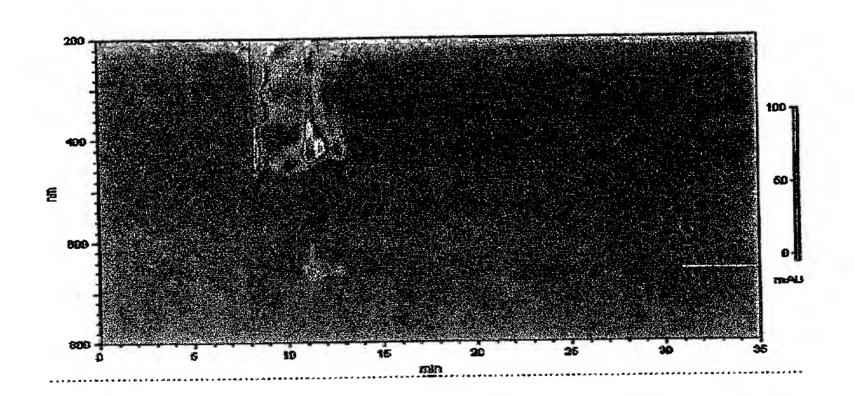
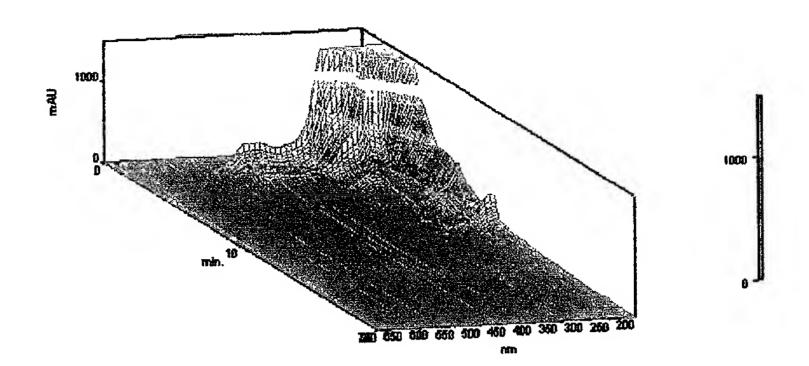


Figure 85



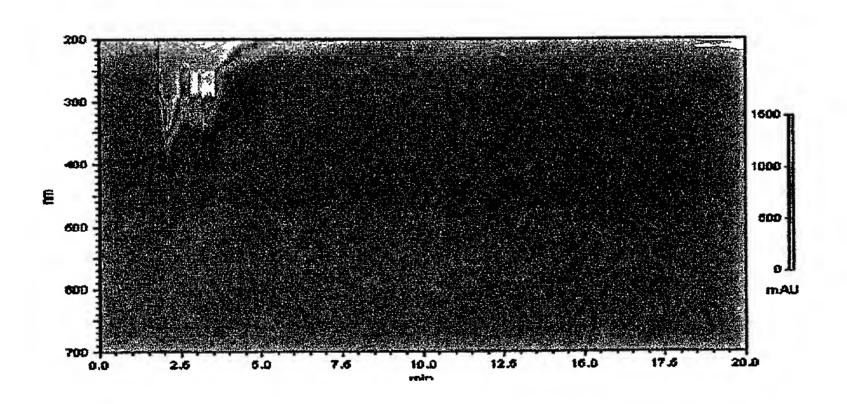
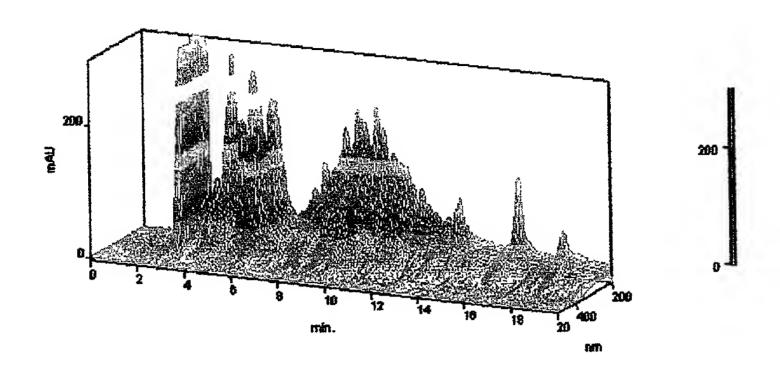
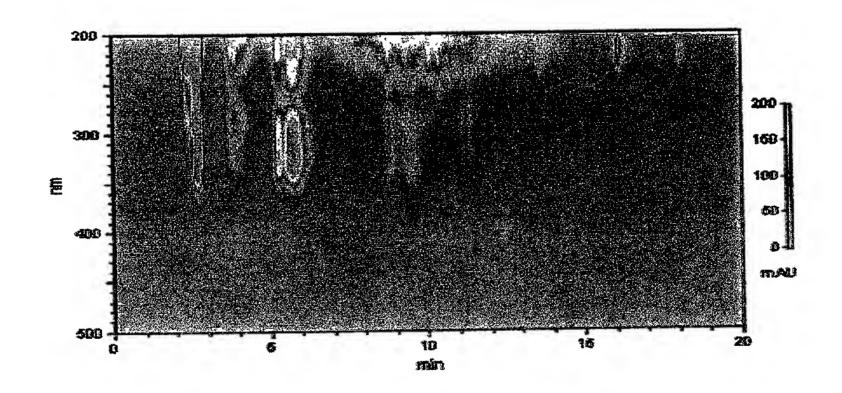
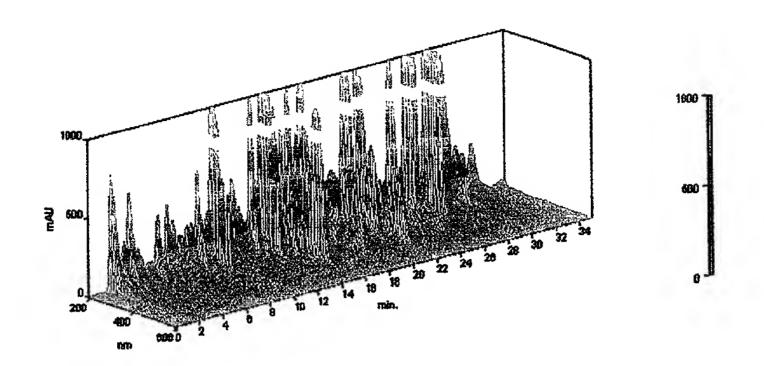


Figure 86





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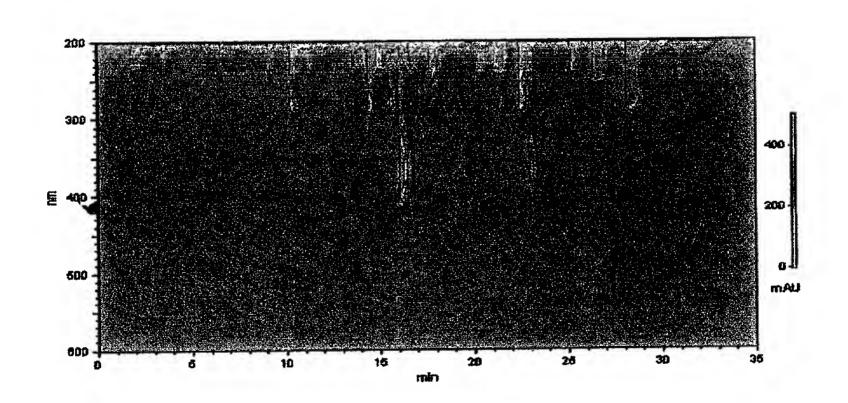
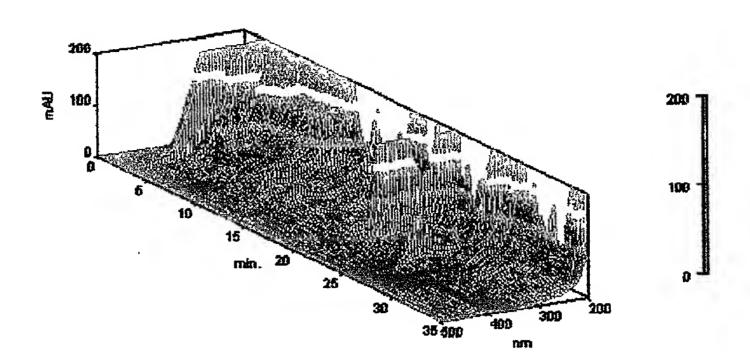


Figure 88



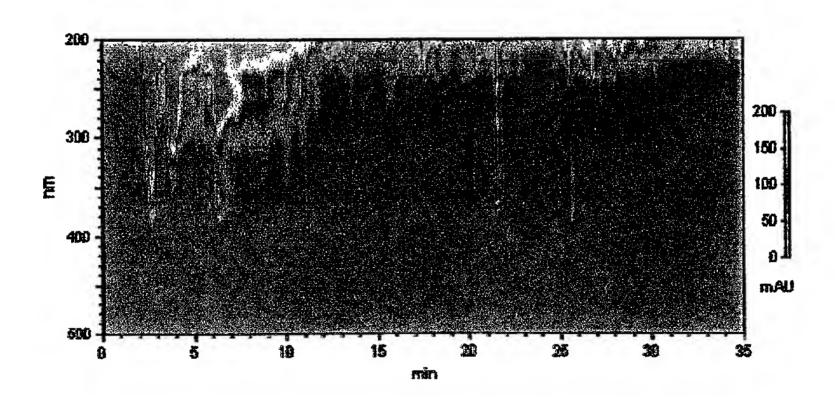
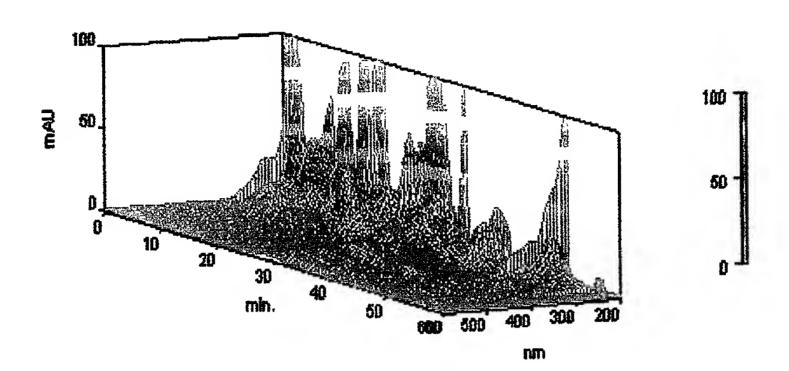


Figure 89



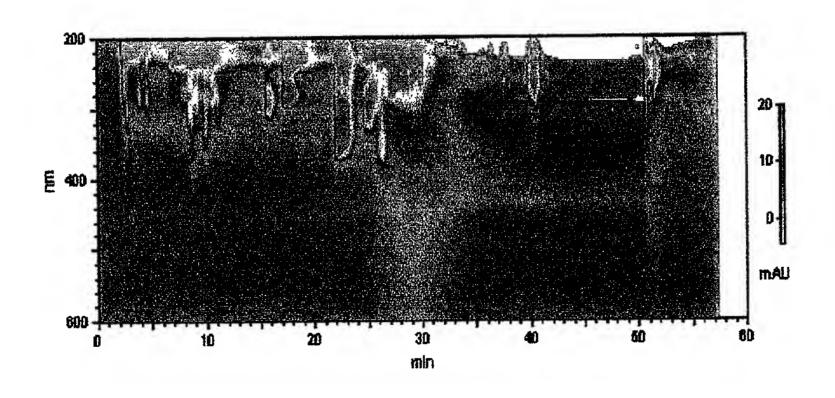
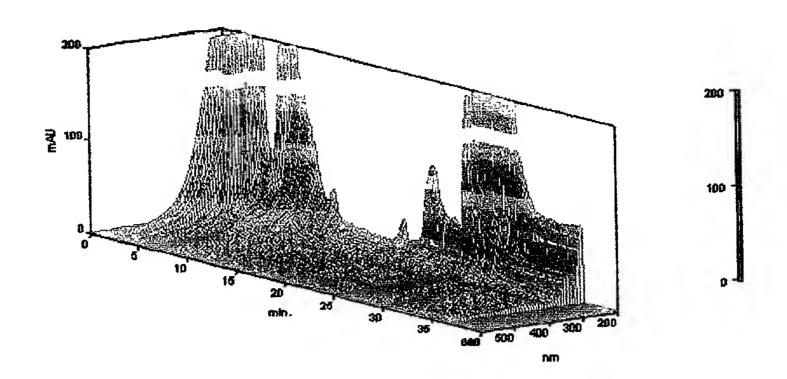


Figure 90



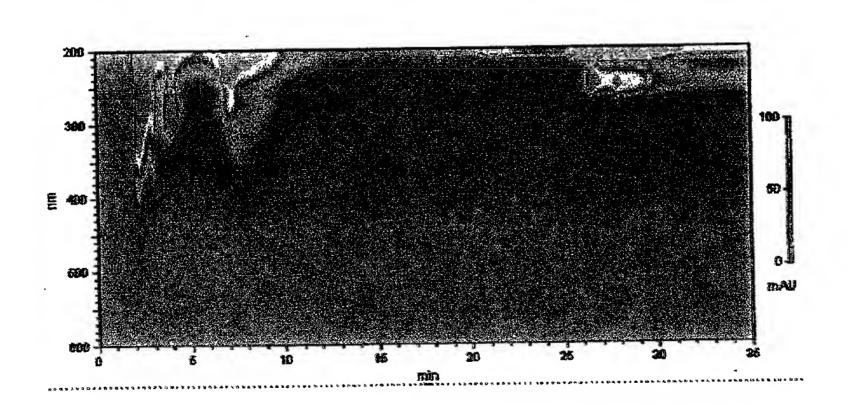
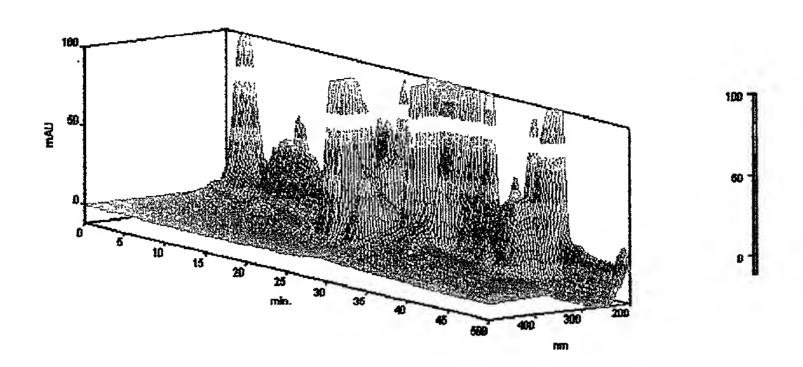


Figure 91



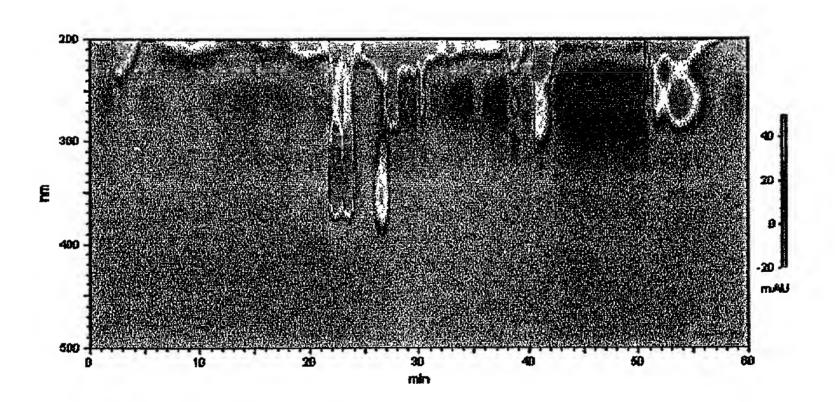
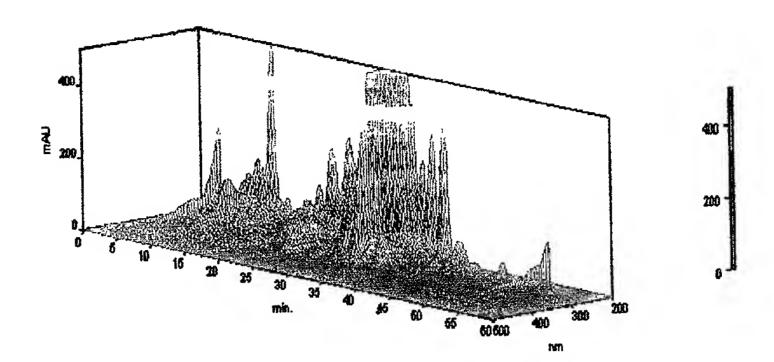
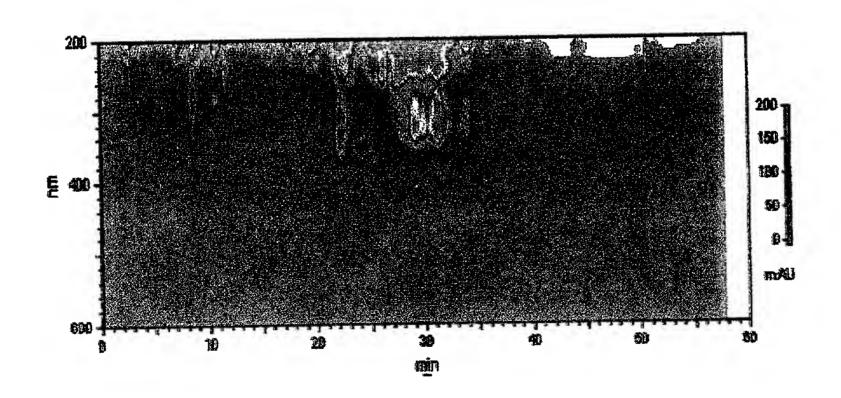
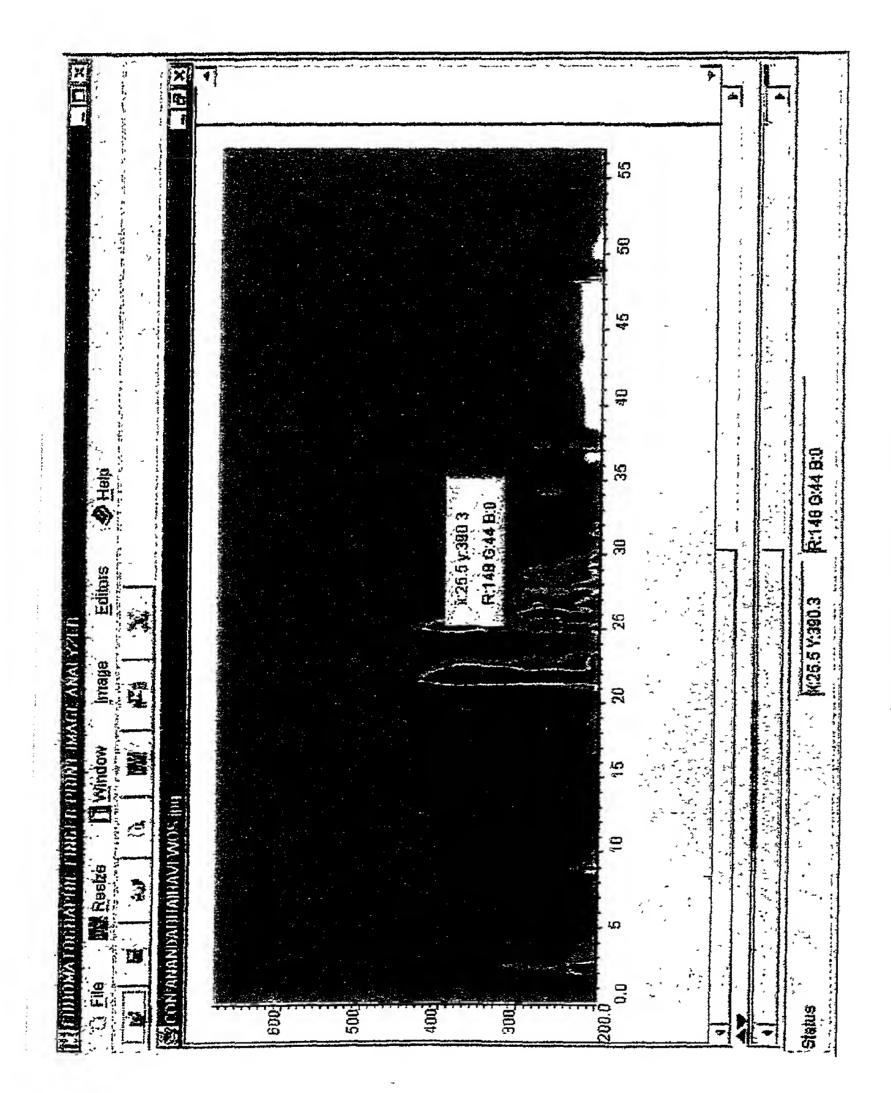


Figure 92





IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE



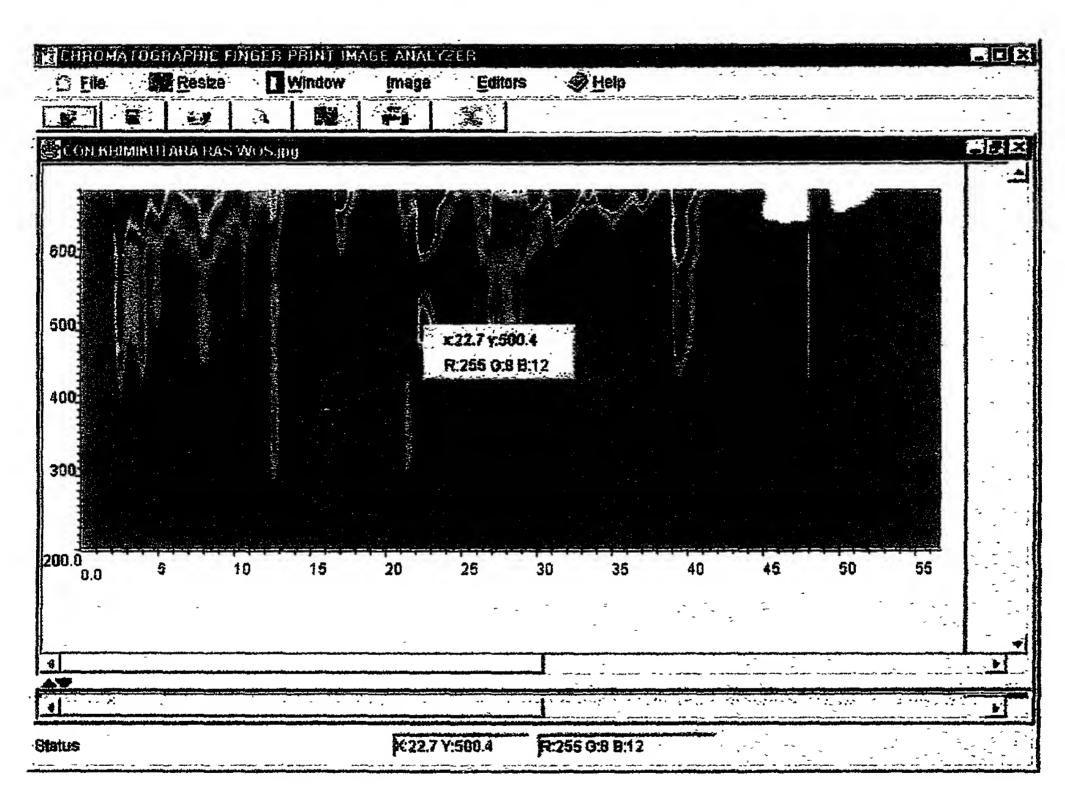
Anandabhairavi Ras

peak. The same is shown in down tool bar. These will be exported to barcoding software Y right clicking the image software is able to show the coordinates on the box near the which generates a barcode for the said values.

Figure 93

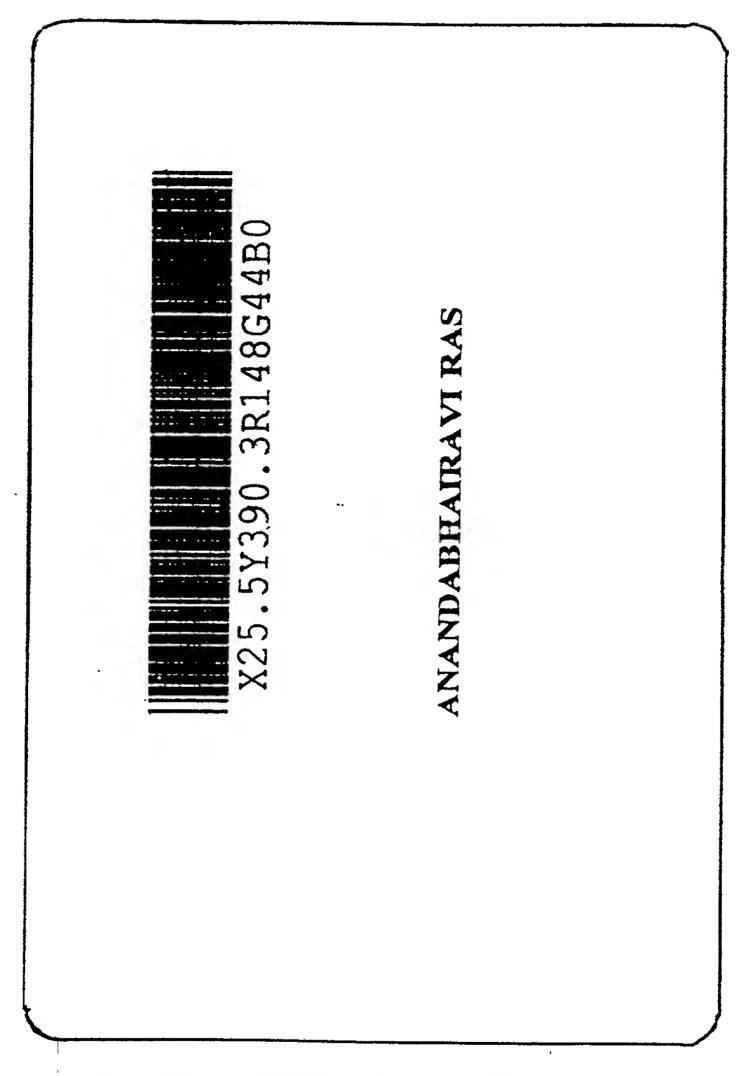
Figure 94

IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE



Krimikutara Ras

Same mechanism as explained in Figure 93



Barcode generated for specified coordinates

Figure 95

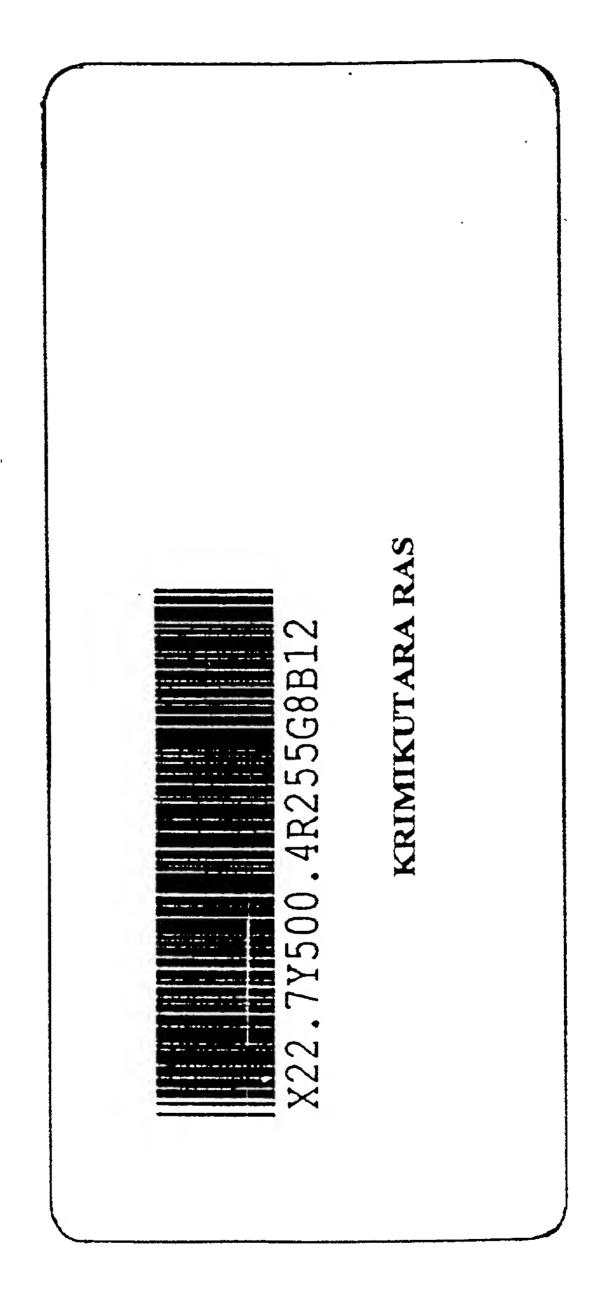


Figure 96

Finger prints:

Figure 97

CARL AND VILLAND VILLA

Mfg. Date:

Date of expiry:

Individual constituents:

Batch number:

Lot number:

M.R.P:

Dosage:

Precautions:

For Children:

For pregnant woman:

Barcode:

X25.5Y390.3R148G44B0

ANANDABHAIRAYI

Display Window For Anandabhairavi Ras

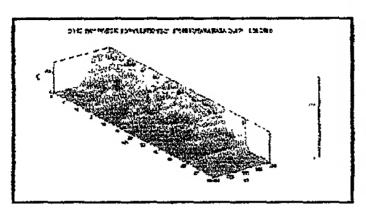
Display windows for all the medicines will be done. This becomes a database for ERP CRM application.

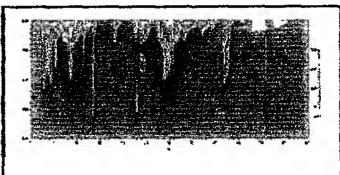
The state of the s

Figure 98

Name of the product: Krimikutara Ras

Owner: Industry Finger prints:





Mfg. Date:

Date of expiry:

Individual constituents:

Batch number:

Lot number:

M.R.P:

Dosage:

Precautions:

For Children:

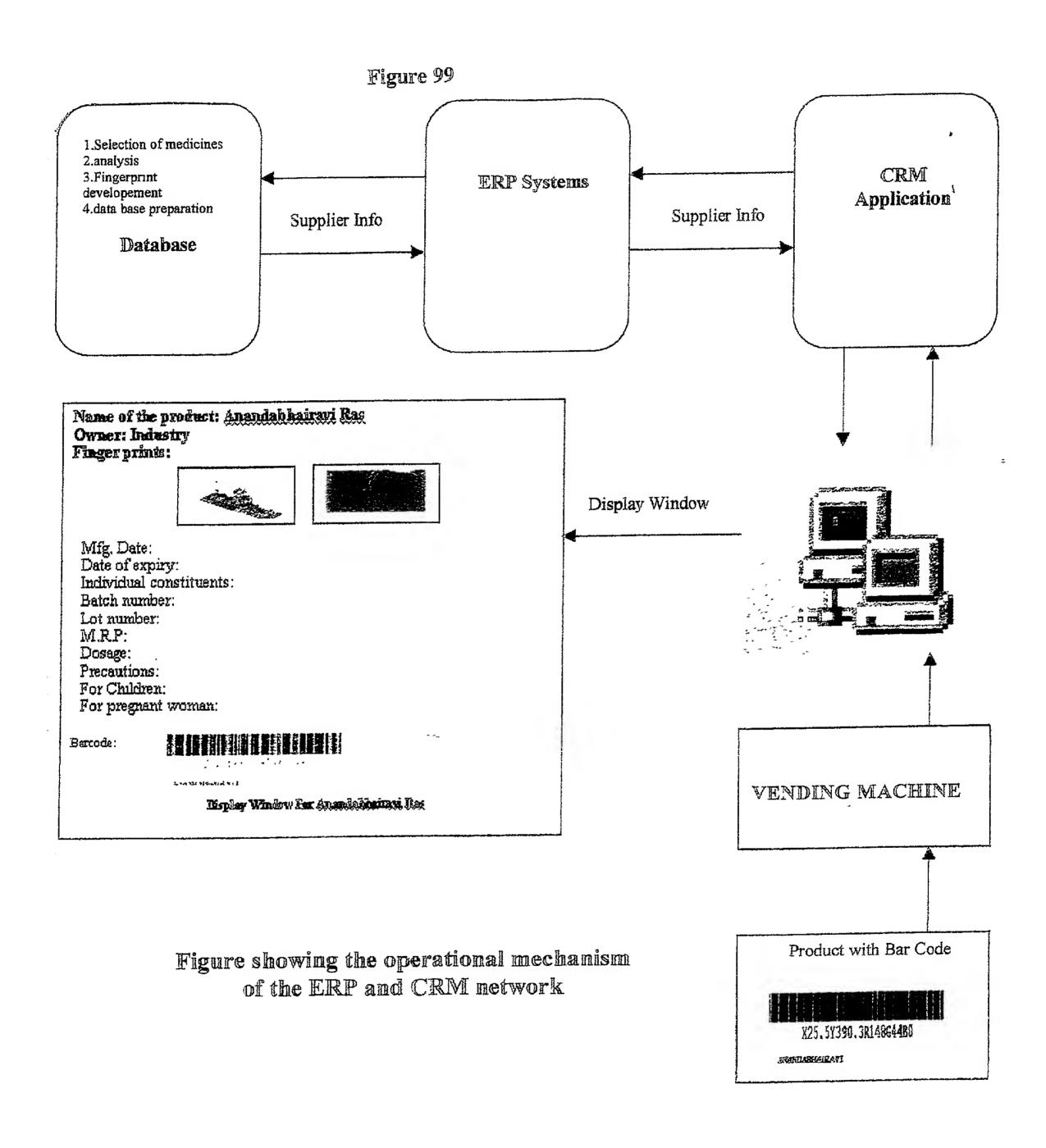
For pregnant woman:

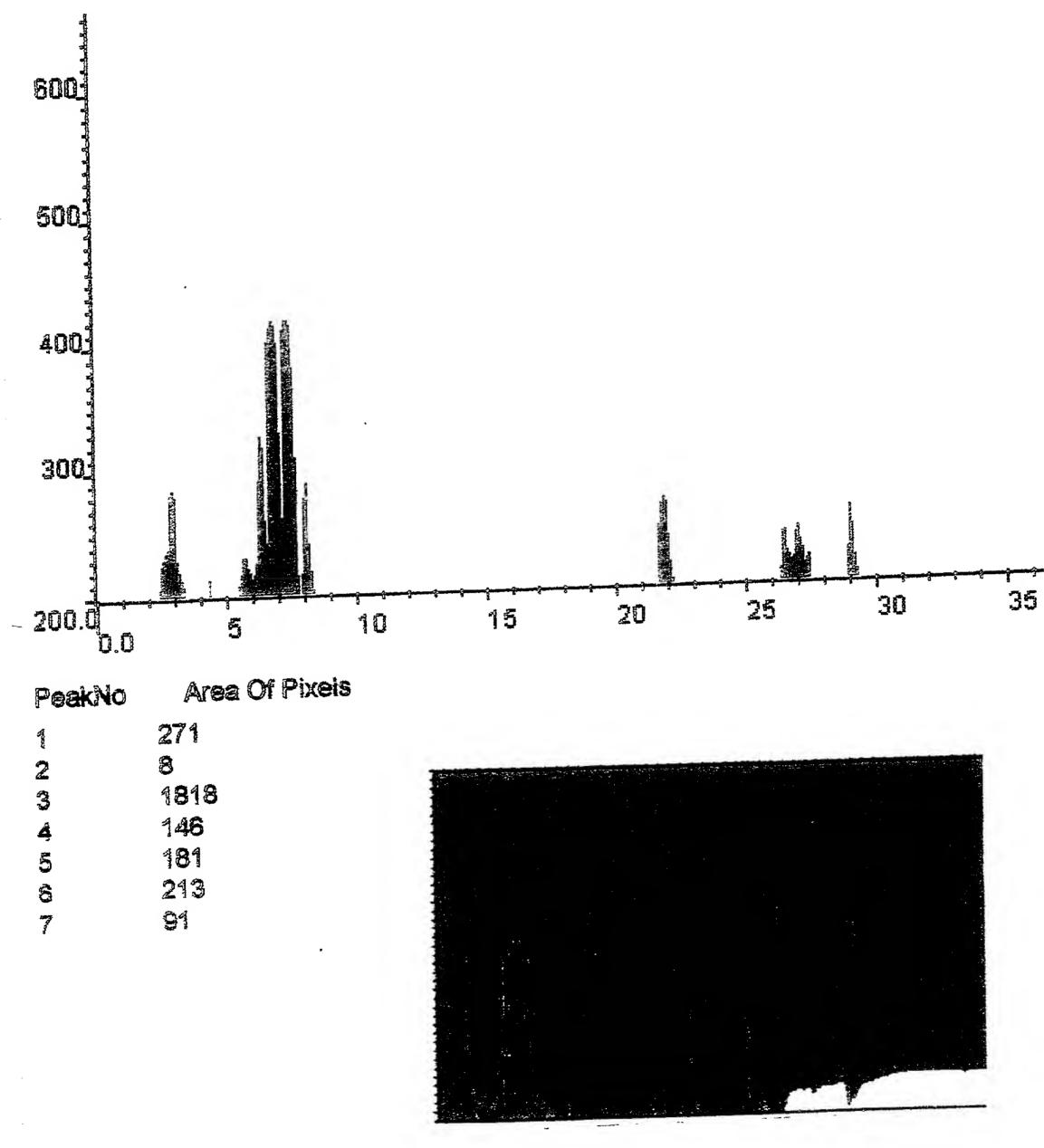
Barcode:

X22.7Y500.4R255G8B1

KR**BO**KUTARA RAS

Display Window For Krimikutara Ras





CHROMATOGRAM OF AZARDIRACTA INDICA (Tender leaves in February)

Figure 100

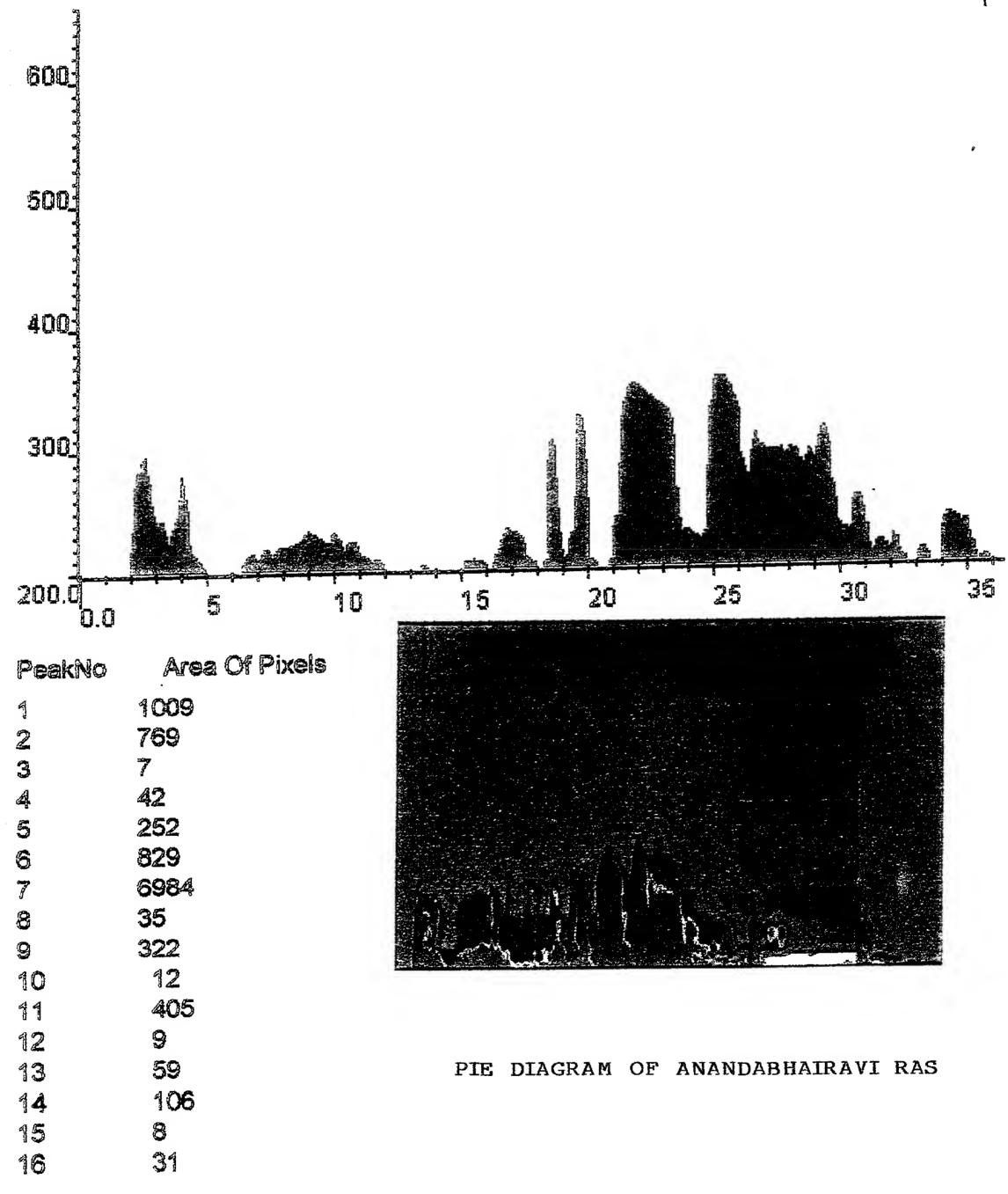
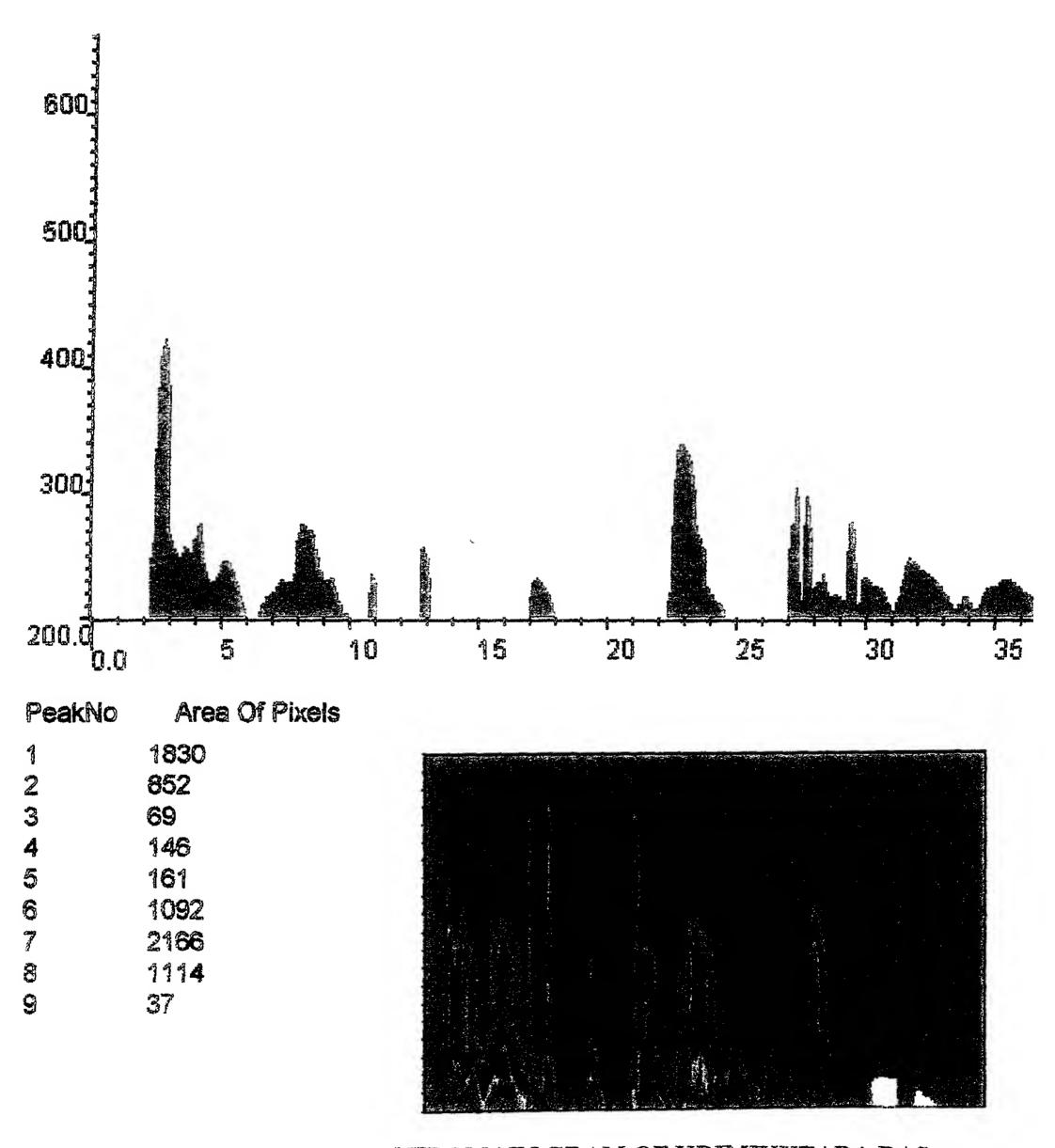
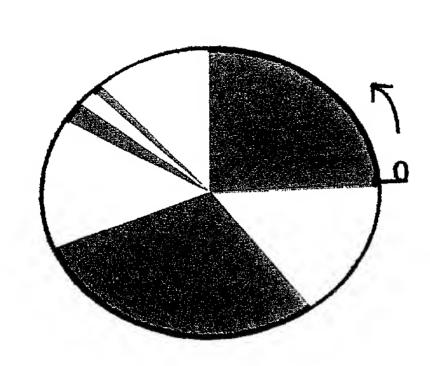


Figure 101



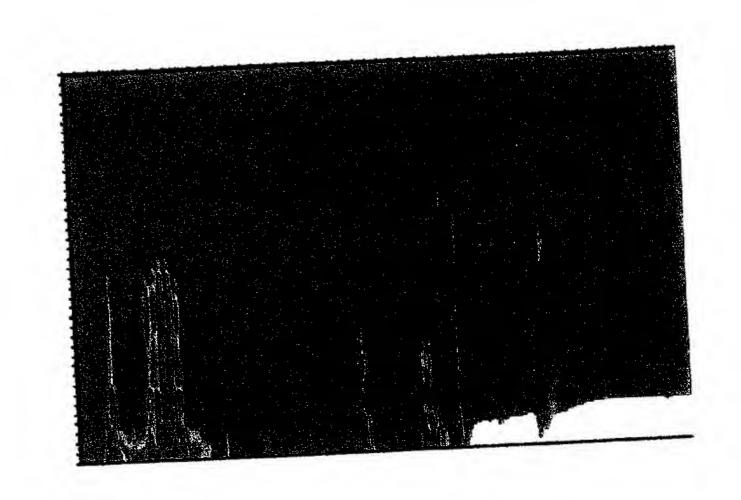
CHROMATOGRAM OF KRIMIKUTARA RAS

Figure 102



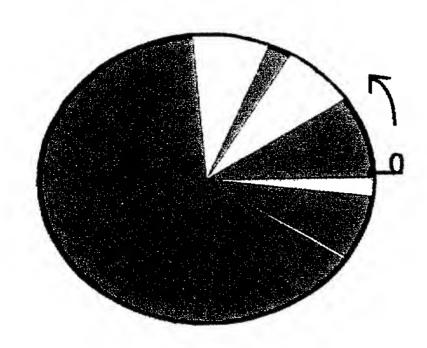
Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%

Percentage of pixels represents the constituents.

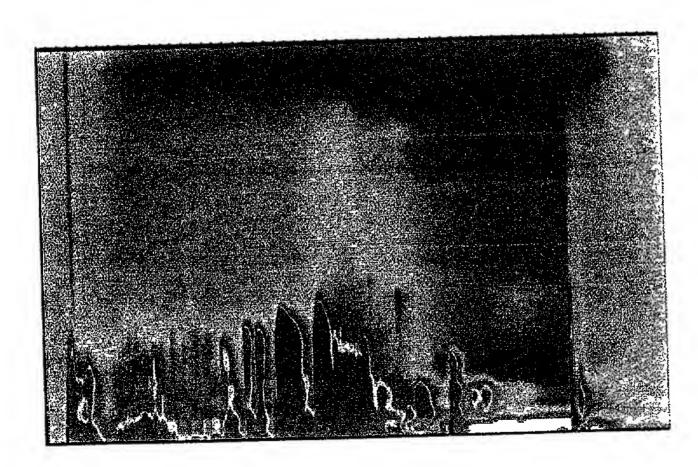


PIE DIAGRAM OF AZARDIRACTA INDICA (Tender leaves in February)

Figure 104

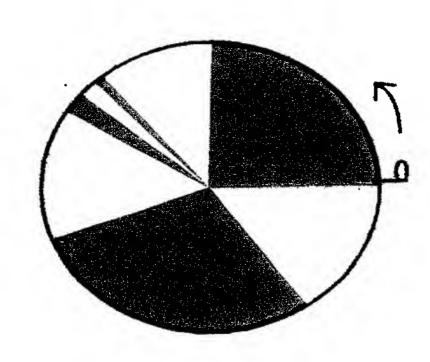


9.27475 % Peak 1 7.0686646 % Peak 2 0.06434415 % Peak 3 0.3860649 % Peak 4 2.3163893 % Peak 5 7.620186 % Peak 6 64.197075 % Peak 7 0.32172075 % Peak 8 2.9598308 % Peak 9 0.11030425 % Peak 10 3.7227685 % Peak 11 0.08272819 Peak 12 0.54232925 Peak 13 0.97435427 Peak 14 0.07353617 Peak 15 0.28495267 % Peak 16

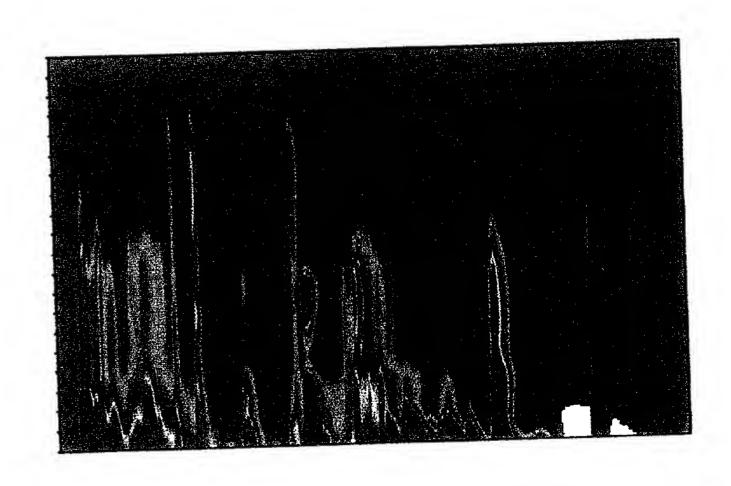


PIE DIAGRAM OF ANANDABHAIRAVI RAS

Figure 105



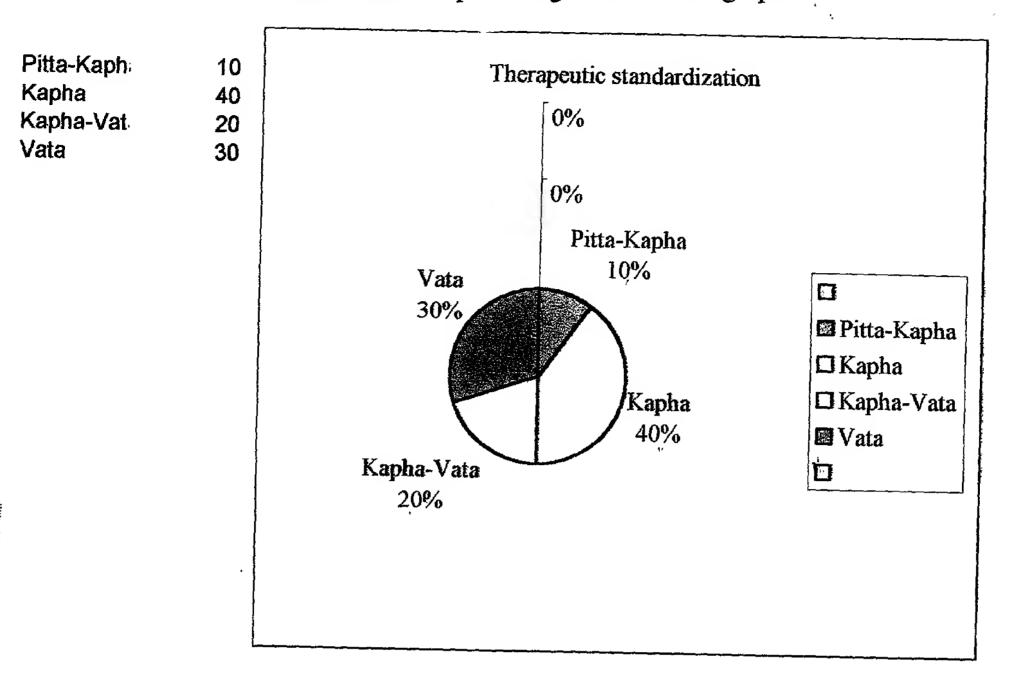
Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%



PIE DIAGRAM OF KRIMIKUTARA RAS

Figure 106

Pixel values or percentage values from graphs.

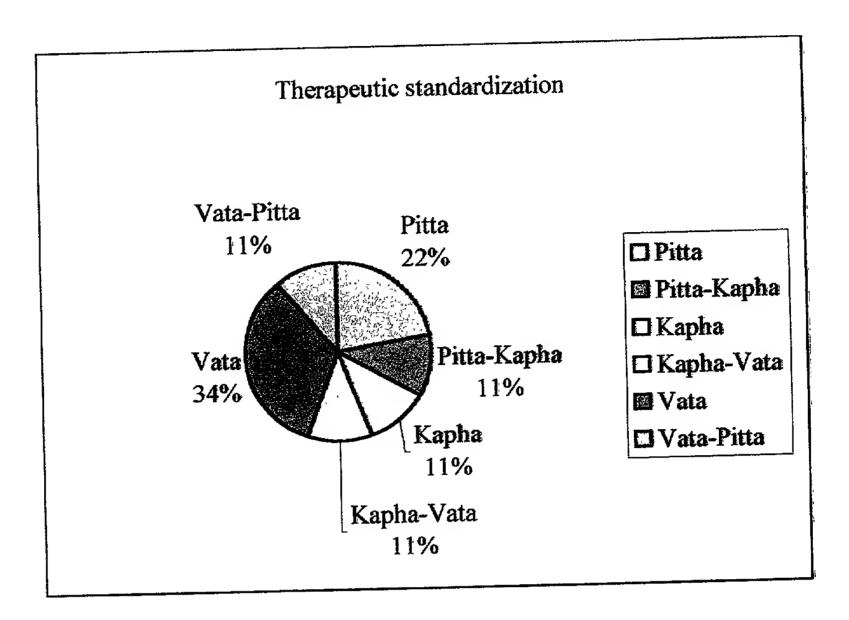


This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.

The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.

Pitta 23
Pitta-Kaph: 11
Kapha 11
Kapha-Vat 11
Vata 34
Vata-Pitta 11

Figure 107



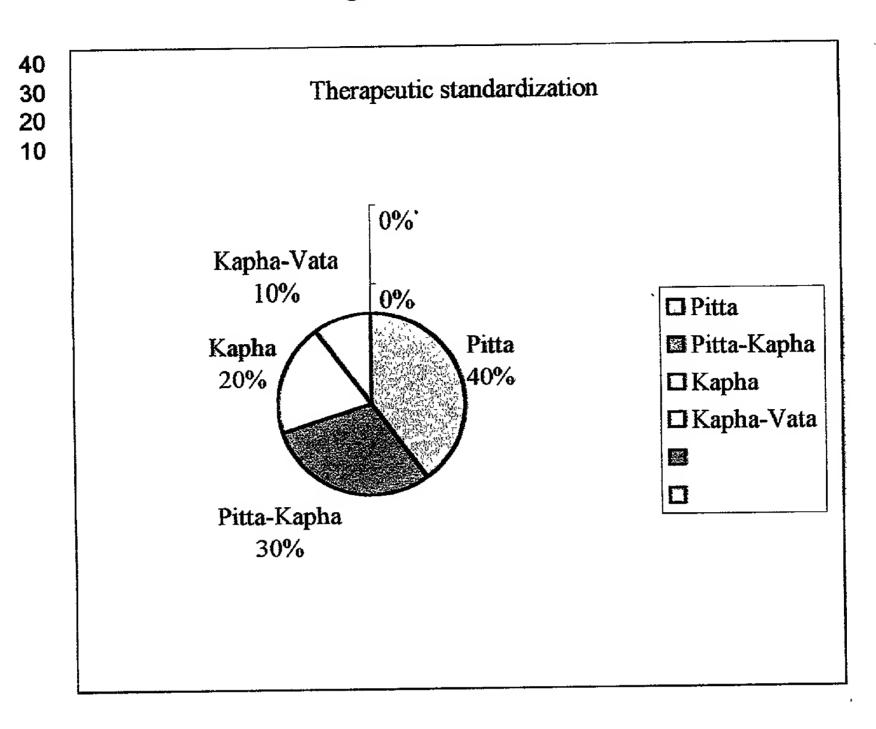
Pitta

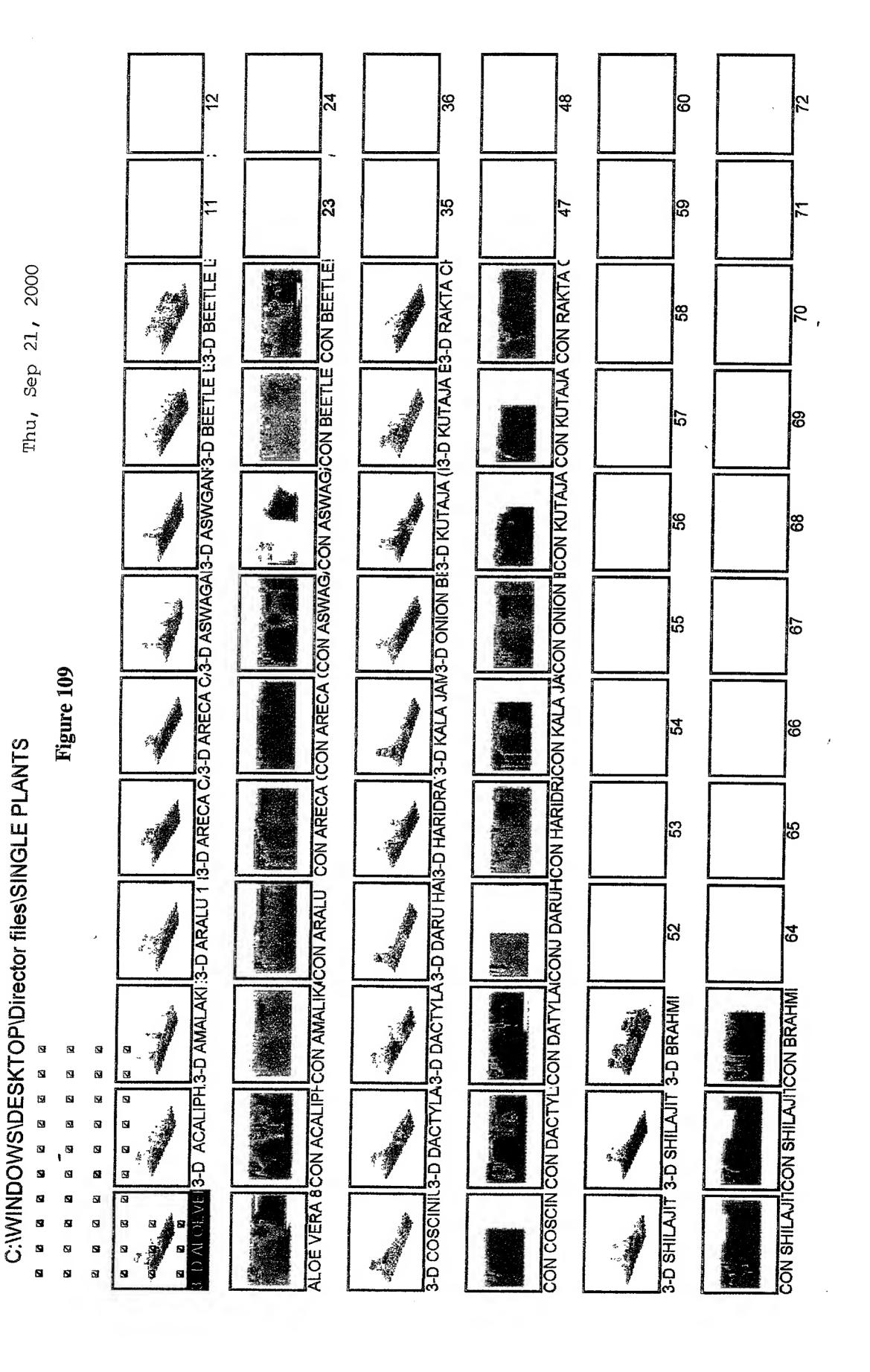
Kapha

Pitta-Kaph

Kapha-Vat

Figure 108





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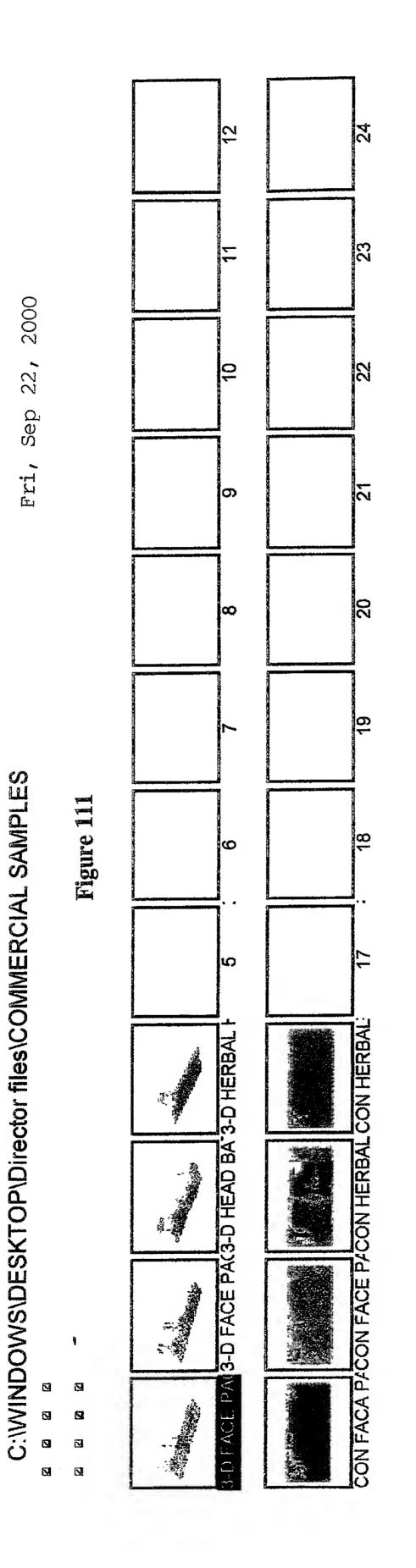
Sep

Fri,

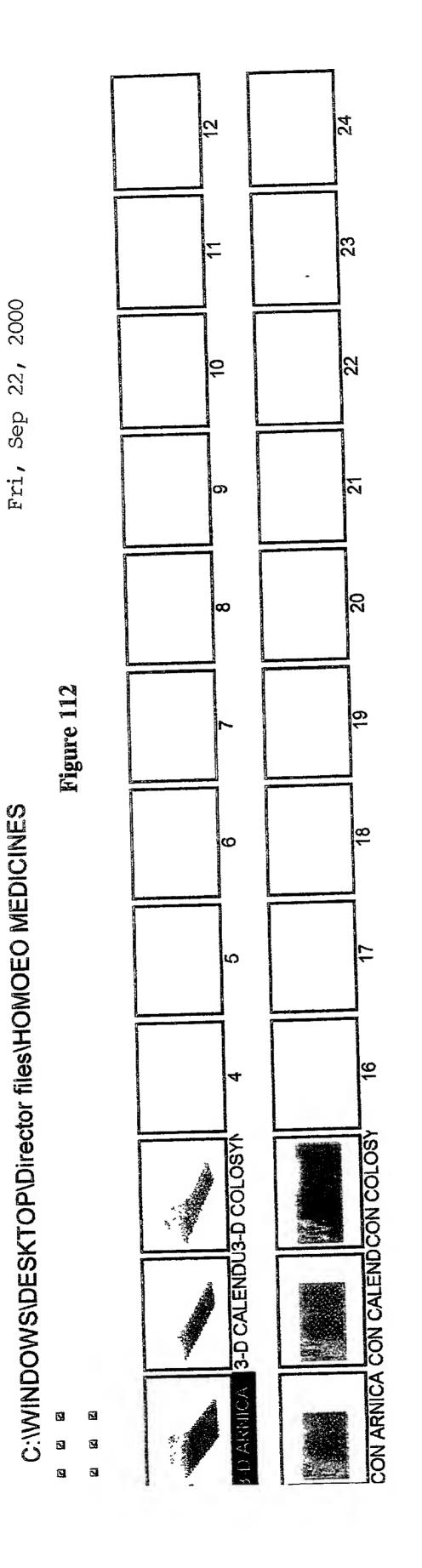
C:\WINDOWS\DESKTOP\Director files\HERBAL FORMULATIONS

proper 8 48 38 24 12 for52 35 4 23 28 46 8 4 22 9 CON UNPROCCON KARPURCON KRIMIKLCON TRIKATICON TRIKATICON KAMADICON SURYAVCON KANCHACON SUVARN 3-D TRIKATU 3-D KAMADUCCON SURYAV3-D KANCHAN3-D SUVARNA N CHOPACCON COMMEICON COMMEICON COMMEICON HUTHAS CHOPACH3-D COMMERIS-D COMMERIS-D COMMERIS-D HUTHASA 57 68 28 3D MAHISHAK3-D MAHALAK3-D MAHAYO(3-D MILK PRC3-D SAPTAMK3-D KANCHAK3D MAHISHAK CON MAHISH, CON MAHALACON MAHAYCCON MILK PRCON SAPTAMCON KANCHACON MAHISH Figure 110 3-D BRIHATV/3-D CON AGNITUICON ANANDACON AROGY, CON BRIHAT COI 垄 3-D TRIKATU 3-D UNPROCES-D KARPURAS-D KRIMI KU 3-D ANANDA I3-D AROGYA $\overline{\mathbf{M}}$ \square \mathbf{Z} IJ ā D D V Ø Ø 図 \square V ¥ \mathbf{Z} 3 D AGNITUN Ø Ø Ŋ S E E N Ŋ 図 J J Ø U Ø Ŋ 3

also and market the for profile product their monitor for mulation. industry prepare a the These will help standardization to

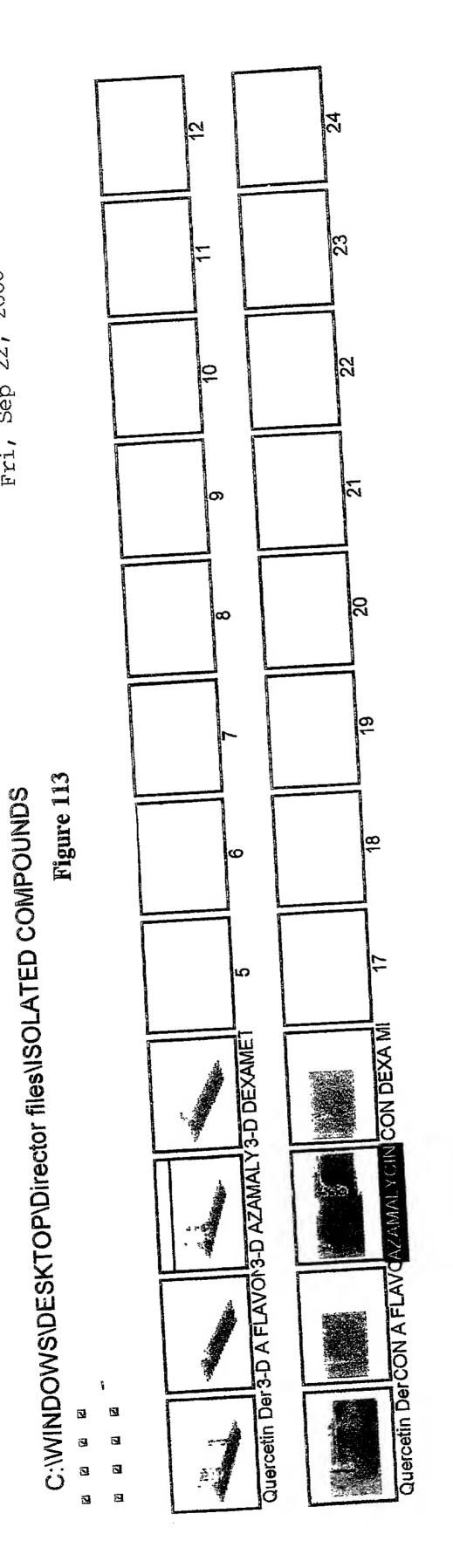


Example for adulterated cosmetic samples.

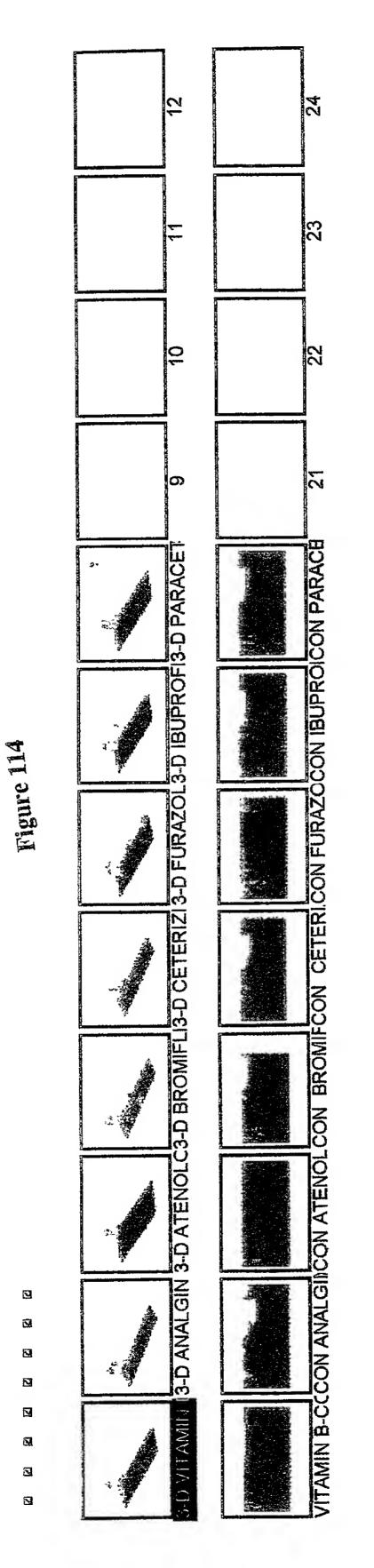


The fingerprint of Mother tincture only were done. They can be done to the level of femto gram level as the PDA detectives are very sensitive. Hence dilution can also be fingerprinted.

Fri, Sep 22, 2000



This helps to know the purity after isolation and to know the UV spectra of an unknown molecule.



22, 2000

Sep

Fri,

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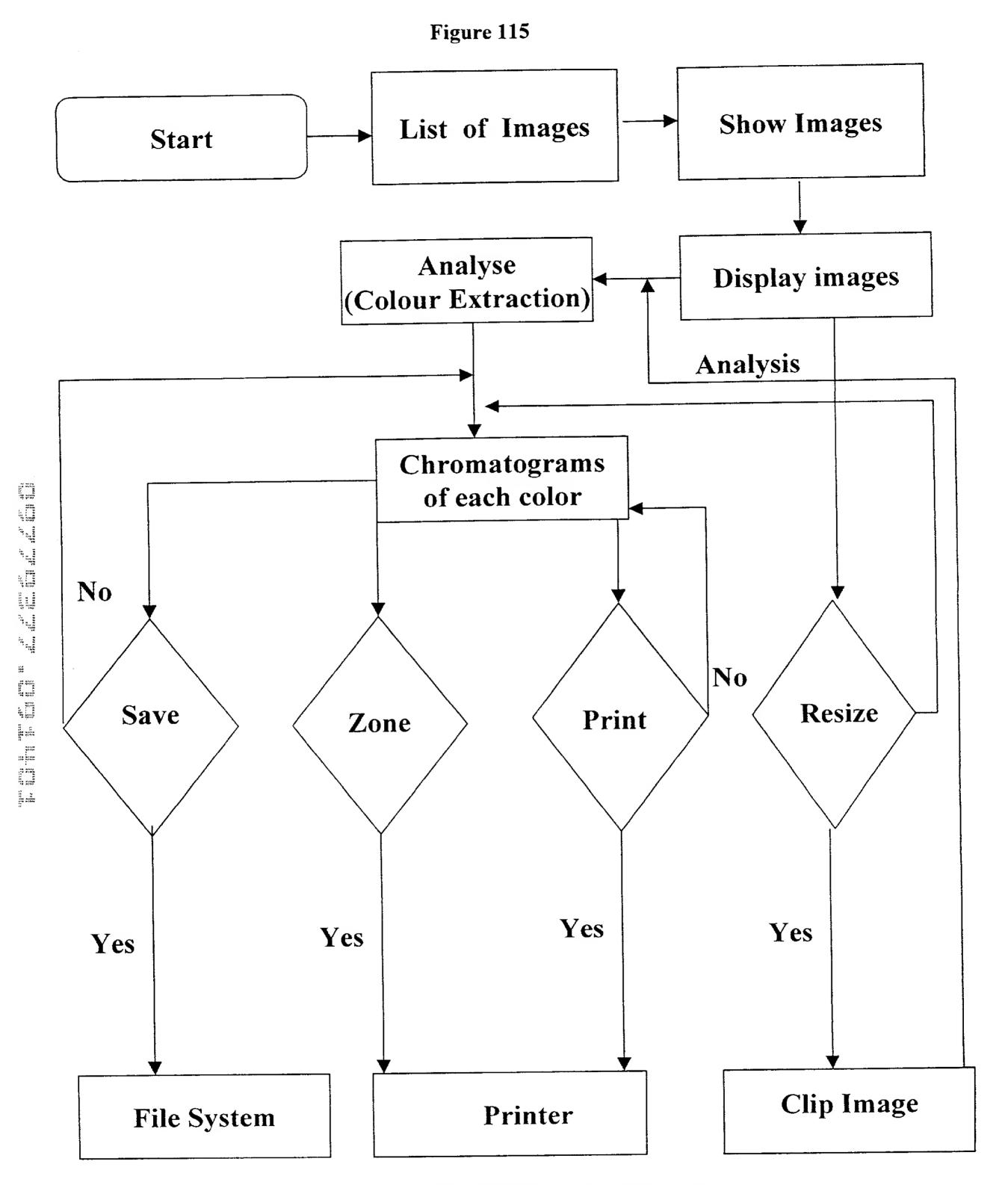
Ø

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This method can be used for all allopathic medicinesfor chemical and therapeutic standardization.



OPERATIONAL SEQUENCE OF SOFTWARE